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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JANUARY 15, 1947

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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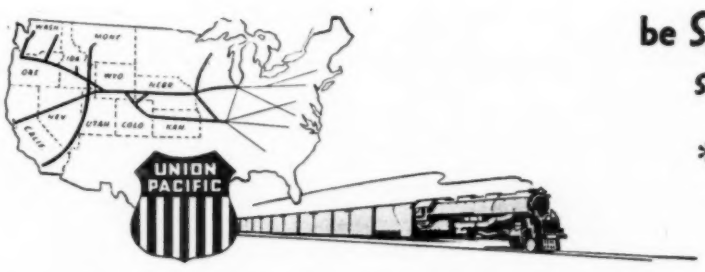

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UNION PACIFIC RAILROAD

The Strategic Middle Route

AMERICAN NURSERYMAN
F. R. KILNER, Editor

Editorial

OUTLOOK FOR 1947.

Although the past year saw peacetime production records exceeded in a number of industries, the national income at a new peak and Christmas trade the largest ever, some views of business for 1947 consider a recession in sight, though its extent is debatable.

Indeed, many businessmen and economists are of the opinion that the recession is not likely to occur at all.

Reasons for the optimistic view include the extensive demand for building materials, household equipment, automobiles and other products in short supply during the war; the great volume of wartime liquid savings still in the hands of the public, the release of business curbs late in 1946 and the awareness of businessmen generally that prices must be favorable to induce public buying on a large scale.

The arguments advanced on the other hand include, as the two most important factors favoring a recession, the record size of industrial inventories and the proximity of a buyers' strike against high prices for goods no longer in short supply.

There is no question that inventories in the hands of manufacturers are of unprecedented proportions in some cases, chiefly because finished goods are held up by lack of parts or certain supplies. As the latter become available, the inventories will come upon the market in increasing quantities. Whether that larger supply will affect production depends upon the extent of the demand months hence.

Higher prices, it is recognized, reduce the number of potential buyers with each advance. The incomes of some portion of the public have not risen commensurate with prices, and the persons of this unfortunate group cannot buy. There is a still larger group of those whose mental reaction to high prices produces an unwillingness to buy that has a further effect of reducing demand.

In the nursery field there are few items in which supply is large, and no evidence of unduly sized inventories appears. Prices on most items of nursery stock have advanced, to meet higher costs. In some instances, such as roses and fruits, the strong demand has helped the upward boost. With those exceptions, the prices of nursery stock have not risen enough to produce any reaction. More than that, nurserymen are quick to sense the sentiment of their customers and to adjust charges accordingly.

The time for selling, rather than order taking, is here again in the nursery business, but neither big inventories or generally excessive prices prevail in this field, and even though a recession of moderate proportions may occur in some manufacturing industries, the outlook for 1947 is bright for nurserymen.

The Mirror of the Trade

WHOLESALE PRICES.

In this issue are published two letters from retail nurserymen, one describing and commending the procedure of a large wholesale nursery firm for its handling of inquiries from retail buyers, the other a criticism of opposite methods pursued elsewhere.

Taken together, the two letters describe both sides of a picture which is not so commonly seen as in other years, but nevertheless continues in view. It is due to a lack of definite policy on the part of some wholesalers and some retailers. So long as either type of organization does business in a catch-as-catch-can style, just so long will the problem be a vexatious one.

The larger nursery firms of the country have adopted definite policies, reduced to a routine which is described by the North Dakota nurseryman. Inquiries from other than regular customers are checked with state nursery inspection lists or other records to determine whether or not the would-be purchaser is entitled to wholesale prices. If the evidence is against him, a courteous letter is sent in reply to the inquiry or with the return of the order. Wholesale firms find this procedure to their own advantage, because the filling of retail orders at wholesale prices leaves no profit, particularly under present conditions. Any wholesaler who thinks he is making money on this type of business usually fools himself. The quantity is seldom large enough to warrant an exception.

The current cost of printing has similarly led most wholesalers to revise their mailing lists so that they reach only bone fide wholesale buyers. It is just as easy for the individual wholesaler to check the names of those entered on his mailing lists as it is for the publisher of this or any other trade magazine. Many subscriptions are returned because they come from persons not engaged commercially in the nursery field. Now and again a copy of the magazine may fall into the hands of a person who makes improper use of it, just as an occasional copy of a wholesaler's price list may be picked up and used by retail buyers. On this account, it is not sufficient for a wholesaler to act on the assumption that every inquiry or every order he receives is from a person or firm entitled to wholesale prices; incoming mail should be checked or at least scrutinized by a responsible and informed member of the staff, if not the proprietor himself.

Retailers who venture occasionally into the wholesale field likewise upset trade routine and derive less profit than they expect. The cost of buying in stock from several directions and assembling a large order, in order to resell the stock at wholesale rates, will be found unprofitable if the retail nurseryman takes account of his time in looking through catalogs, seeking quotations, handling correspondence and accepting and making deliveries.

The age of specialization is advancing. A firm which is organized to do business along a certain line will find it not only the best business policy, but also most profitable, to let the other fellow handle the business he is set up to do.

DO YOU HAVE A POND?

According to an article in the Farm Quarterly, there were built in Missouri in 1943 more than 11,000 farm ponds; in Kansas, 10,000; Kentucky, 18,000. These ponds serve several important uses on farms, such as the storage of water against the summer drought. They also add, when properly designed and located, to the attractiveness of the farm.

A properly constructed pond which would retain water might provide insurance against extreme drought damage on a large nursery. Several nurserymen have such ponds, either made by damming small creeks or built so that they retain surface water which falls heavily at certain seasons. There are, of course, tricks in construction, particularly with regard to spillways and control of contour approaching the pond. Most state agricultural experiment stations furnish data on pond construction. This is a source of water supply worth looking into. L. L.

Unusual Shrubs for Northern California

By Bert A. Bertolero

Landscape planters and nurserymen in states having the milder climate of northern California will especially benefit from this discussion of distinctive and ornamental shrubs for northern California, for it contains recommendations of outstanding species by the author, Bert A. Bertolero, who is associated with the McDonnell Nursery, Oakland, Cal.

Although all the area of the Pacific coast lies within the latitudinal limits bounding the North Temperate zone, there is a considerable area in California in which a warm, temperate climate merges with the semitropic. This area includes much of southern California, extends northward to Santa Barbara and gradually diminishes northward to the San Francisco bay region. Even though the climate in the bay area is not so well favored as that in southern California, there is still sufficient mildness to permit the growth of many unusual plants, as the temperature seldom drops lower than 40 degrees and in the summer rarely reaches 85 degrees. This climate is similar to that of Western Australia, and in many respects we have drawn heavily upon that territory for ornamentals. From the temperate Australian and New Zealand areas have come the well known genera acacia, eucalyptus and pittosporum. Other genera less known, but having many fine ornamental species, are casuarina, hakea, hymenosperum, albizzia, lagunaria, sterculia, callistemon, eugenia, leptospermum and myoporum.

When asked my choice of ten shrubs to be considered as musts for a small home garden in the bay area, my selection was judged by the following rules:

1. They must be new but tried varieties which have been proved to grow well in this locality, for too many gardens have become monotonous because of repetition of varieties—some used since the turn of the century.
2. They must be outstanding in their flowering, either in shape, texture or season of flowering.
3. With their growing habits, if the shrubs are properly planted, they should require no pruning, other than just a snip or two to shape the plants.
4. The plants must be hardy, evergreen and resistant to insects and diseases.
5. If grown for fruit, it should be outstanding for size, quality or fruiting season.

With the above in mind, I have selected the following ten plants. They have all been tested in the bay area, and the results prove they are musts for home gardens wanting new and distinctive effects.

Pittosporum Daphniphylloides.

Daphne pittosporum, as it is most commonly known, derives its name from the Greek words pitta, meaning tar or pitch, and sporos, meaning seed, in reference to the seeds embedded in a pitchlike substance. It is a member of the pittosporaceae family and a native of Australia. It will reach a height of ten feet, is evergreen and very ornamental and can stand a drop of temperature to 22 degrees. This large, handsome shrub, which is one of a hundred species widely distributed, has glossy 6-inch long, bright green, narrow leaves similar to those of Pittosporum rhombifolium. The large, 2-inch clusters of creamy-white flowers literally cover the plant in the spring and are heavily scented. The fragrance is a mixture of spice, lemon and orange blossoms. Yes, you will walk toward the plant to inhale its fragrance, for it is rare. Many artistic flower arrangements may be achieved with its fine green foliage and large clusters of flowers. It will grow equally well in full sun or partial shade and will tolerate a dry soil. However, during the summer it demands plenty of moisture, but is touchy about drainage; be certain of good drainage before planting. The only pruning required is to keep its shape within bounds. Propagation is made from softwood cuttings.

Osmanthus Delavayi.

Delavay osmanthus, of the oleaceae family, was introduced to the coast by W. B. Clarke & Co., San Jose, Cal. They mentioned in their catalog, "The Garden Aristocrat," that W. J. Bean, the famous English authority, claimed it to be one of the most beautiful white-flowered evergreens. Upon this high recommendation, I secured a plant for myself and soon found that it surpassed an old favorite, Osmanthus ilicifolius. Delavay osmanthus is really an aristocratic dwarf evergreen, native to China. Its foliage is small and olive-green in color, reminding one of miniature holly leaves. It is slow-growing but compact, yet will reach a height of six feet and breadth of four feet. The plant is quite hardy, growing in full sun or partial shade, and is known to have tolerated temperatures down to 10 degrees. In spring and early summer it is covered with fragrant, bell-shaped flowers and makes an excellent foundation shrub or tub specimen.

Raphiolepis Indica Rosea.

The name raphiolepis was derived from the Greek words rhaphis, meaning a needle, and lepis, a scale; the two words refer to the bracts of the flowers. Raphiolepis indica rosea is the handsome, semidwarf shrub commonly known as the India hawthorn, of the rosaceae family. The leaves are leathery, regularly toothed and from three to four inches long. The compact foliage is covered in early summer with the most magnificent, large, 6-inch panicles of half-inch pink flowers, like the loveliest of apple blossoms and as sweetly fragrant. The plant forms a virtual cloud of pink when it is in bloom. The flowers are followed by clusters of blue-black berries, which in themselves are most decorative in the garden. Indian hawthorn is usually planted as a filler shrub for foundation plantings; yet it rightfully deserves a spot where one can enjoy it from a close-up view. It is ideal for bank cover, in my opinion, for it reaches a height of from three to five feet and an equal breadth; it requires no pruning, and its hardiness permits it to stand 10 degrees of frost.

It will thrive in any reasonably good soil, but prefers a loamy soil with leaf mold and peat added. It appreciates irrigation during the summer, although it has gone without water the entire summer without too much suffering. Weak plants which do not receive water may at times become infected with scale, but this is the exception rather than the rule, for the plants are hardy and free of insects.

The true Raphiolepis indica rosea does not come true from seeds. It must be propagated from cuttings of ripe wood, which should be taken in late summer, or should be grafted on the rootstock of Raphiolepis ovata.

Photinia Serrulata Nova.

The compact Chinese photinia is an evergreen reaching a height of eight to ten feet. Its leaves are oval, eight inches in length, sharply

toothed, hairy beneath and very lustrous. The branches and young parts are also hairy. In the spring the plant becomes a solid mass of large, 6-inch panicles of white flowers. It far surpasses the ordinary photinia because of its beautiful glossy foliage and larger, lacier flower head. This big, handsome foliage is at first a red bronze green, turning to a bright, glossy green as the leaves attain their full size, and in the fall and winter it is dotted with occasional brilliant red leaves. The name is derived from the Greek word photeinos, meaning shining.

The plant needs good drainage and light, sandy, loamy soil with plenty of leaf mold. Full sunlight or filtered sunlight is preferable, as too much shade causes new growth to mildew. The plant is hardy, being able to stand down to 5 degrees in temperature. The only objection to this plant is that, if grown weakly, it is susceptible to San José scale. However, it is still excellent and a must for the garden because of its foliage and flower color, its fine dense growth making it a wonderful background shrub or informal hedge.

Propagation of Photinia serrulata nova may be from one of the following: Seeds, which should be stratified after washing from the pulp; softwood cuttings in summer, or layers or grafts on Photinia arbutifolia, apple or hawthorn.

Daphne Burkwoodi.

Daphne burkwoodi, an English hybrid also known as Daphne burkwoodi Somerset, has grown in my own garden since 1942 and is now three feet in height and of equal breadth. It is an excellent foundation shrub, or it can be used as a massing agent on a gentle slopping bank, and is as easily adaptable to a rock garden. The foliage is a rich dark green, giving the effect of boxwood, as well as resembling Daphne cneorum. In the bay area it is an evergreen of vigorous, erect growth and likes a peaty or very sandy soil having perfect drainage. Its floriferous show is in April, May and June, when the end shoots are completely surrounded with long-tubed, delicately scented flowers that are pink as buds, nearly pure white when in full bloom and then rosy-pink to lavender again before dropping. Occasionally, in the bay area, the plant will also bloom in the early fall and winter. Although a bit temperamental, if its demands for good soil, perfect drainage and full sun are met, Daphne Somerset fully repays the effort in a mass of color and beauty for the garden.

Viburnum Odoratissimum.

Viburnum odoratissimum, best known as sweet viburnum, a member of the caprifoliaceae family, is a glabrous evergreen native of the Khasi Hills, in India. It will grow to a height of ten feet and has stout, warty branches. The leaves are elliptic to elliptic-oblong, three to six inches in length, resembling English laurel, only more leatherlike. During July and August the plant is a mass of beautiful, white, fragrant 4-inch panicles, but one usually finds a few flowers blooming from early spring to late fall. In the winter it has a red-speckled appearance, because of the red berries and occasional leaves which turn a brilliant red, and it is a desirable shrub for Christmas color. The plant will do excellently in full or partial shade with plenty of moisture and will tolerate down to 10 degrees in temperature. It is the finest of shade-loving evergreens, clean of insects and ideal for background or informal hedges because of its glossy foliage, fragrant flowers and red berries. The plant is a must for every shady garden in the bay area.

Meyer Lemon.

The Chinese dwarf lemon is a must for even the smallest garden, because of its beauty. It is one of the few plants which have beautiful foliage, flowers in bud stage and in full bloom, plus immature and mature

[Continued on page 62.]

FASTIGIATE OAK FROM SEED.

That a particular form of woody plant may occasionally come true from seeds is illustrated by the pictures reproduced on this page. While various forms are frequently found within the limits of a single species, ordinarily these forms are propagated vegetatively.

Two ordinary English oaks with spreading branches together with a fastigiate tree, now thirty-four feet tall, have grown from three acorns planted in 1931, all three from a 63-foot specimen of Quercus robur fastigiata, growing at All Saints' church cemetery at Great Neck, Long Island, N. Y. The pictures originally appeared in the November issue of the Journal of the New York Botanical Garden, with a report by J. G. Esson on the simple experiment which resulted in the production of the trees.

Fastigiate English Oak, in Center, and Two Seedlings from Its Acorns.

Stub Graft as Supplement to Budding

By W. H. Upshall

Stub grafting has been used extensively in top-working fruit trees, but apparently hardly at all in nursery practice. Its use in an experimental way in the station nursery at East Malling, England, has been reported. Requiring no tie, this graft can be made quickly and needs no more aftercare than budded plants. It may be a useful supplement to budding. Where buds have failed, stub grafts may be used to increase the stand of 1-year trees. When rootstocks are scarce, or when there is a big demand for trees of a new variety or strain, the expense involved in grafting is amply justified.

Some nurserymen remove rootstocks on which the budding was unsuccessful; others bud these rootstocks in their second summer in the nursery. In both instances there is loss of time and money. By stub grafting it is possible to increase the stand and have trees of uniform age in the row.

The technique of stub grafting in the nursery row is illustrated on this page. Three years' work in the horticultural experiment station nursery at Vineland Station, Ont., Canada, have shown that the following points should be observed:

1. In Ontario the grafting should be done during April, preferably after the first cultivation and hoeing.

2. The scion should be dormant, or very nearly so.

3. A minimum rootstock caliper of three-eighths of an inch at the point of grafting is required for sufficient tension to hold the scion tightly in place.

4. The slope of the scion should be in line with the row as a measure of protection against displacement in cultivation.

5. The cleft should be made halfway through the rootstock, preferably slightly below the wound caused in the budding operation.

6. The cleft should be made at a steep angle (figure B) so that the tilt of the scion may be kept to a minimum.

7. The scion should be as short as can be handled conveniently, two to two and one-half inches.

8. The longest side of the wedge of the scion should be directly in line with the topmost bud, so that after placement in the rootstock this bud will be in the inside position.

9. The cambium layers of scion and rootstock should be aligned along one side of the cleft. Usually because of the greater bark thickness of the rootstock, this means that the scions should be inset slightly.

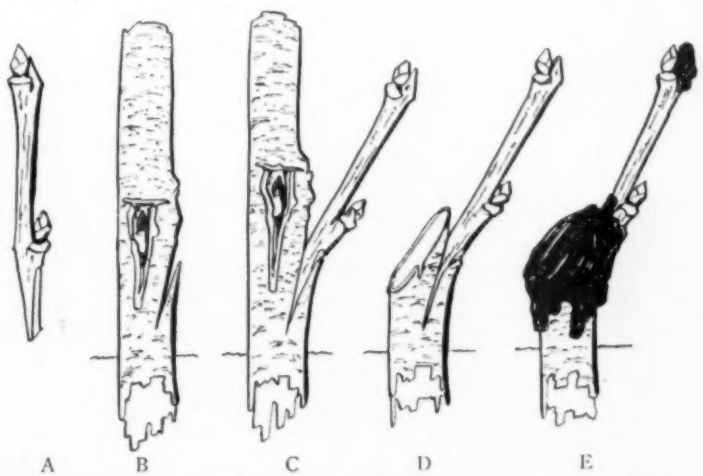
Rootstocks which have already had their tops cut off above the inserted bud, now dead, may still be grafted, though it will be a little more difficult to open the cleft for insertion of the scion, especially with large rootstocks.

If more than one scion bud grows, the most desirable one with respect to growth and position may be saved, the others being removed with knife or pruners.

Results from experiments at the horticultural experiment station indicate that the growth from stub grafts has been slightly less than that from buds, more particularly where the grafting was done late in the spring. The union has been satisfactory in all combinations tested, but because of the unavoidable tilt of the scions there has been a slight crook in the trunk just above the point of union. If the scions are placed as closely as possible to the upright position, and if the top bud of the scion is on the inside (Figure C), the extent of the crook can be reduced to a point where few fruit growers would complain about it.

Insufficient work has been done to permit definite recommendations regarding optimum time for grafting the various kinds of fruit. It appears, however, to be unwise to graft much before the time that the buds are bursting. This means that the scions should be collected sometime previous to the grafting period and should be held at or slightly above 32 degrees Fahrenheit to maintain their dormancy. If it is possible to have the nursery cultivated and hoed before the grafting is done, so much the better, there being that much less chance of displacing the scions through accidental contact.

In 1945 the May 19 grafting of cherry was almost a failure, but the May 22 grafting of apple was quite successful, though the growth of whip was less than that from scions placed earlier in the season. No explanation can be offered for the comparatively poor results from April 16 grafting of apple, when the per cent taken was only thirty-one, as compared with sixty-seven per cent from the March 14 grafting of apple and seventy-five per cent from the May 22 grafting of the same fruit. The highest per cent taken was eighty-seven, for a March 28, 1944, grafting of sour cherry on sour cherry seedlings. Complete failure was recorded in one instance, that of a December 3, 1943, grafting of sweet cherry on Mahaleb rootstocks. Results in 1946 were good on apple, pear and plum stocks, but proved to be rather disappointing on cherry stocks.



Method of stub grafting in the nursery: A, prepared scion; B, rootstock, in which a bud placed the previous summer had failed to grow, showing diagonal cut halfway through; C, scion in place; D, rootstock cut off as close as possible above the scion; E, the wounds covered with asphalt emulsion.

W. H. Upshall is chief in research at the horticultural experiment station, Vineland Station, Ont., Canada. Illustration and paper presented at 1946 meeting of American Society for Horticultural Science.

Prize Designs of Small Home Grounds

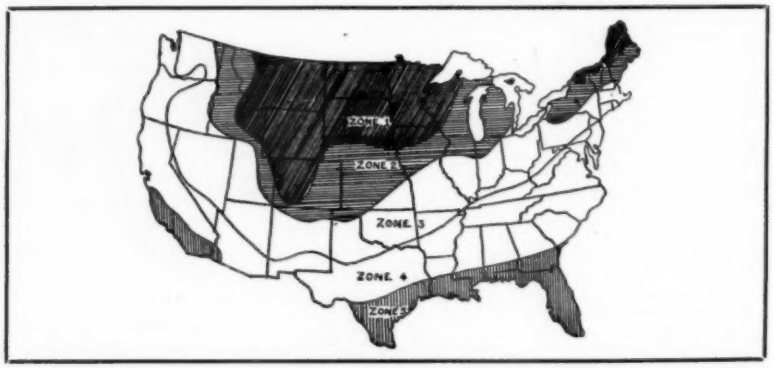
Completing the prize awards in zone 4 in the regional prize competition for designs of small home grounds sponsored by the American Nurseryman and the National Landscape Nurserymen's Association, designs for the modern style house and the ranch style house for the milder climatic portion of the country are presented in this issue. These are the entries of Stanley A. McIntosh, Little Silver, N. J., who was also awarded first prize for the Cape Cod house, winning three out of the four awards in this zone. His design for the Cape Cod home and that of George W. Creaghan, Riderwood, Md., for the colonial house, were published in the January 1 issue.

First awards made in the contest were announced in the December 15 issue, for zone 2, inasmuch as no plans meriting awards were received for the northernmost portions of the country comprised in zone 1.

The number of entries and the high caliber of the designs in zone 3 required more time for checking, and the awards in that zone will be announced in the February 1 issue.

The contest rules provided four problems, including four types of contemporary small home buildings, within five climatic regions in the United States, according to the map shown on this page.

The requirements imposed upon



Planting Zones Observed in Competition for Designs of Small Home Grounds.

MODERN STYLE HOUSE, ZONE 2. BY STANLEY A. McINTOSH, LITTLE SILVER, N. J.

Probably the most unique of our contemporary architecture is the type called modern. It is designed for convenience and ease of living, with much thought of sunlight and spaciousness. This theme is reflected in the home offered here. Large areas of window space suggest garden views—living pictures of seasonal interest. It might be noted, too, that the intimate garden areas are an integral part of this house.

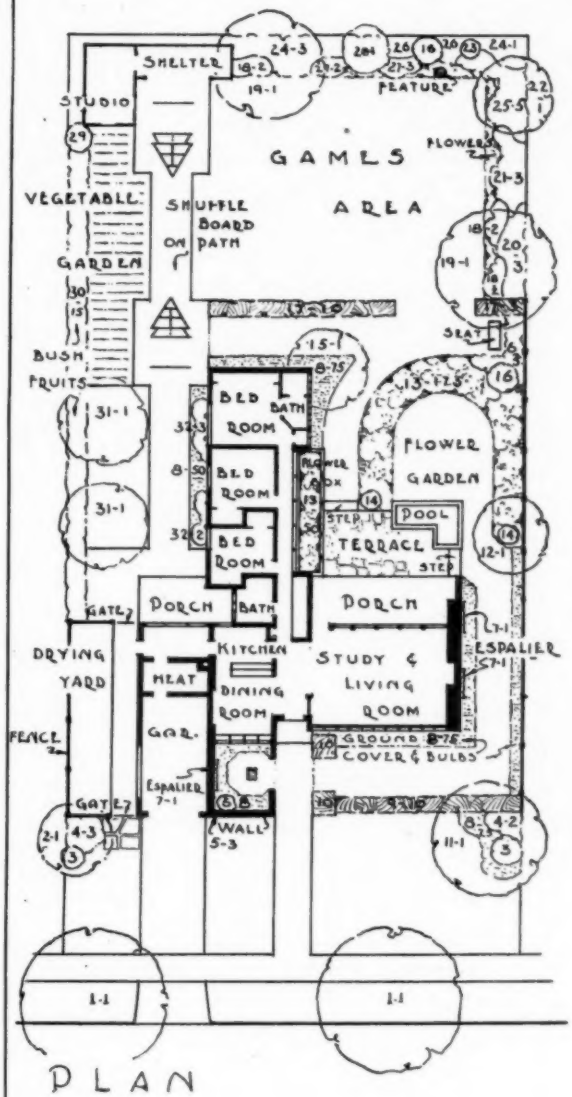
Though this house is placed near the street and the driveway is short, ample space is allowed that pedestrians and vehicles may be seen. The service and drying yard is hidden from the street by a tall fence and gate that blend with the construction. An American holly (key 2) breaks the corner of this fence and acts as a stop to the horizontal lines of the house. The low stone wall, added to help form an entrance court, gives a feeling of stability to the large full-length windows of the dining room. Euonymus minimus (key 5) will etch an interesting tracery of small dull green leaves as spring's innocent brightness is seen in the white clusters of the andromeda (key 6). To complete the courtyard, a clipped hedge of dark green Hatfield yew extends to the property line. Before too long the Magnolia lennei (key 11) should develop its typical irregular masses of leathery foliage and large rose-purple flowers to relieve the rather severe lines thus far produced. An underplanting of Carolina rhododendron, blush azalea, ground cover and bulbs adds a finishing touch to the foundation planting. Inside the entrance court an espaliered fruit or shrub (key 7) breaks a solid wall mass and, with a small feature in an octagonal garden, forms the center of interest for this area.

A tall fence, similar to the one about the drying yard, is placed along the property line and gives privacy to the intimate terrace garden. This saves space, forms a background for a part of the flower garden and may be graced with a few climbing vines or roses. The recessed flower garden, if desired, may be sunken by having the walk to the games area on a higher elevation, level with the terrace. A long flower box is placed in front of the large window and may be arranged to suit seasonal changes. Thus a complete garden unit is formed in close relationship with the house itself. The bell-like flowers of the snowbell (key 12) and the silver bell (key 15) will be best viewed from underneath; therefore these plants should be trimmed up to form small several-stemmed trees. Though of exotic character, the cryptomeria (key 16) will set a staccato note to the rear of the flower garden and frame the seat placed on the way to the open lawn.

The open lawn comprising the games area is separated from the intimate terrace garden by an informal hedge of box-leaved holly (key 17) and is bordered with a shrub planting of good refinement; a few deserve special mention. Dainty abelia, blooming for a long period (key 18), and the more vivid dwarf Cydonia maulei (key 27) are used as facing shrubs. The fragrance of Viburnum burkwoodi (key 20) tells of warmer days to come. Lilacs (key 21), ever a part of the garden, grow here, too, with the lasting scarlet berries of the Viburnum dilatatum (key 24). Curious branches and brilliant leaves in the fall mark the winged euonymus (key 28). The sorrel tree (key 19), a handsome tree of medium size, neat habit and good foliage, is also noted for its autumnal tints.

The open lawn may be used for games and parties, with a shuffleboard court well to the side. In the small studio shelter a place is to be found for the varied activities of a growing daughter. Bordered along the property line with a hedge of bush fruits, the vegetable garden completes this area. Two fruiting cherries, placed near the property line, will be a screen for the bedroom windows and, in season, greet the awakened day with bright blossoms. This is a neat and compact plan, offering much for the space used.

Stanley A. McIntosh.



PLAN

PLANT LIST

KEY	QUA.	DESCRIPTION
1	2	Acer platinoides - Norway Maple
2	1	Ilex opaca - American Holly
3	2	Azalea magnifica - Blush Az.
4	5	Rhodo. carolinianum - Carolina Rho.
5	3	Euonymus minimus - Dwarf Euon.
6	6	Pieris japonica - Jap. Andromeda
7	3	Espalier Fruits - Pear
8	225	Ground Cover & Bulbs
9	10	Taxus hatfieldi - Hatfield Yew
10	2	" " - Squared
11	1	Magnolia lennei - Lenne Mag.
12	1	Styrax japonica - Snowbell
13	225	Perennial & Annual Flowers
14	2	Azalea Pink Beauty
15	1	Halesia tetraptera - Silverbell
16	2	Cryptomeria lobbi - Jap. Cedar
17	13	Ilex convexa - Boxleaf Jap Holly
18	6	Abelia grandiflora - Glossy Ab.
19	2	Oxydendrum arboreum - Sorrel Tree
20	3	Viburnum burkwoodi - Burkwood V.
21	3	Syringa hybrids - Hybrid Lilac
22	1	Malus speciabilis - Flowering Crab
23	1	Juniperus cannarti - Cann. Cedar
24	4	Viburnum dilatatum - Linden Vib.
25	5	Spirea thunbergi - Thunberg S.
26	2	Kerria japonica - Globeflower
27	5	Cydonia maulei - Dwarf Quince
28	1	Euonymus alatus - Winged Euon.
29	1	Hibiscus Mme. Stanley - Pink Althea
30	15	Bush Fruits - Black Rasberry
31	2	Sour Cherries -
32	5	Kalmia latifolia - Mt. Laurel

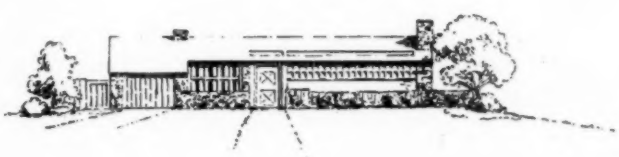
NOTES —

NO. 12 & 15 - Trim up to form a small, several stemmed tree.

NO. 6 - Pachysandra or Vinca & Bulbs with short stems.

NO. 7-30-31 - Selection as desired.

NORTH



ELEVATION

A
LANDSCAPE PLAN
FOR THE
MODERN HOME
ZONE 4 — NEW JERSEY

SCALE — 16 FEET

COMPETITION SPONSERED BY THE
NATIONAL LANDSCAPE NURSERYMENS ASSOCIATION & AMERICAN NURSERYMEN

the contestants and the qualifications prescribed for the judges were set forth in the December 15 issue and need not be repeated here.

Besides the cash award of $50 for the best solution of each of the four problems in each of the five zones, the judges were authorized to recommend honorary mention for such additional plans as merited publication, the designers of which will receive an award of $25 for each plan published. A number of such designs have been chosen and will be published in issues of the American Nurseryman after the first prize-winners in each zone have been reproduced.

With the prize-winning plans for the modern style house and the ranch style house in zone 4 are presented explanatory or interpretive comments regarding his plan supplied by the designer.

RANCH STYLE HOUSE, ZONE 4.

BY STANLEY A. McINTOSH, LITTLE SILVER, N. J.

In developing a landscape plan to suit the problem suggested for the ranch house, the thought of spaciousness seemed to predominate. The matter of growing boys, suburban living and maintenance—coupled with the added chores of a vegetable garden—supplied many other practical factors. Therefore, a plan which would suggest ease in upkeep and create the feeling desired by this type of architecture was necessary. This residence, a low structure of stone and timber construction, having a large full-length center window, seems well anchored to the earth. Its foundation planting should frame rather than hide.

A tall timber fence is used to separate the public area from the more intimate living areas. Three trees are placed in the front (public) yard to help frame the building. With a sorrel tree (key 2), its handsome foliage and long erect bunches of white summer flowers ever welcome to the observer, at the end of a broad-leaved evergreen shrub mass, our entrance walk is colorful and informal. The clump birch near the front entrance will help break the long horizontal lines of the roof and eaves, while also forming a foil for the entrance porch. A ginkgo (key 3) placed on the driveway side of the house offers a unique pattern suggestive of the open atmosphere we wish to stress. Here again a small evergreen shrub mass is used with good effect. The spreading, low-growing boxwood (key 8) used under the window and flanked by box-leaved holly (key 7) continues this casual feeling. At the entrance a compact white azalea and the more loose but upright Viburnum burkwoodi (key 5), underplanted with cheerful mats of candytuft, should create a fragrant bouquet for the spring visitor. Behind the timber fence an orchard-like arrangement of flowering cherries might be noticed. This whole planting should create an open yet restrained feeling of studied informality with good line, depth and texture. One might note that the major part of this planting is away from the building, yet the picture, though focused on the building, extends over the whole width of the property.

The service entrance along the driveway side of the house is partially screened from the street by the ginkgo tree, its underplanted shrub mass and a low hedge. A walk connects the driveway with the kitchen door and extends into the living area. Here, again, a gate and section of timber fence are used to separate these areas. The fence also runs along the property line to form a screen for our patio garden.

The patio garden is composed of three major parts. First is a good-size area paved in squared flagstones of random sizes. An old apple tree with a crooked stem is placed so that its trunk will not interfere with the vista formed upon entering the patio through the dining room door. This tree will also afford shade during the day and be of seasonal interest. The second part forms a transition from the house to the more open areas beyond and an entrance to the patio's third part. Here a small octagonal pool, possibly of colored tile, is set among vividly colored hybrid lilacs (key 21). These lilacs are trained as small several-stemmed trees and form a small garden within the patio garden. An annual border outlines the design of this whole area, and an espaliered fruit or shrub (key 52) graces the blank wall space on the axis of the pool. A foundation planting of low-growing plants of good seasonal interest, in a carpet of evergreen ground cover and bright bulbs, should create a small but interesting and refreshing intimate garden.

Leaving the patio, we enter upon a broad, open lawn. Flowering shrubs and trees form a screen, of successive bloom, from the adjoining properties. An oak suggests a restful spot, as colorful herbaceous flowers offer their display in well defined borders. On the central lawn badminton or volley ball may be quite exciting, but the ever-changing crannied wall is of more interest, as also are the background shrubs waiting to enhance the fall garden with colored leaves and glistening gems.

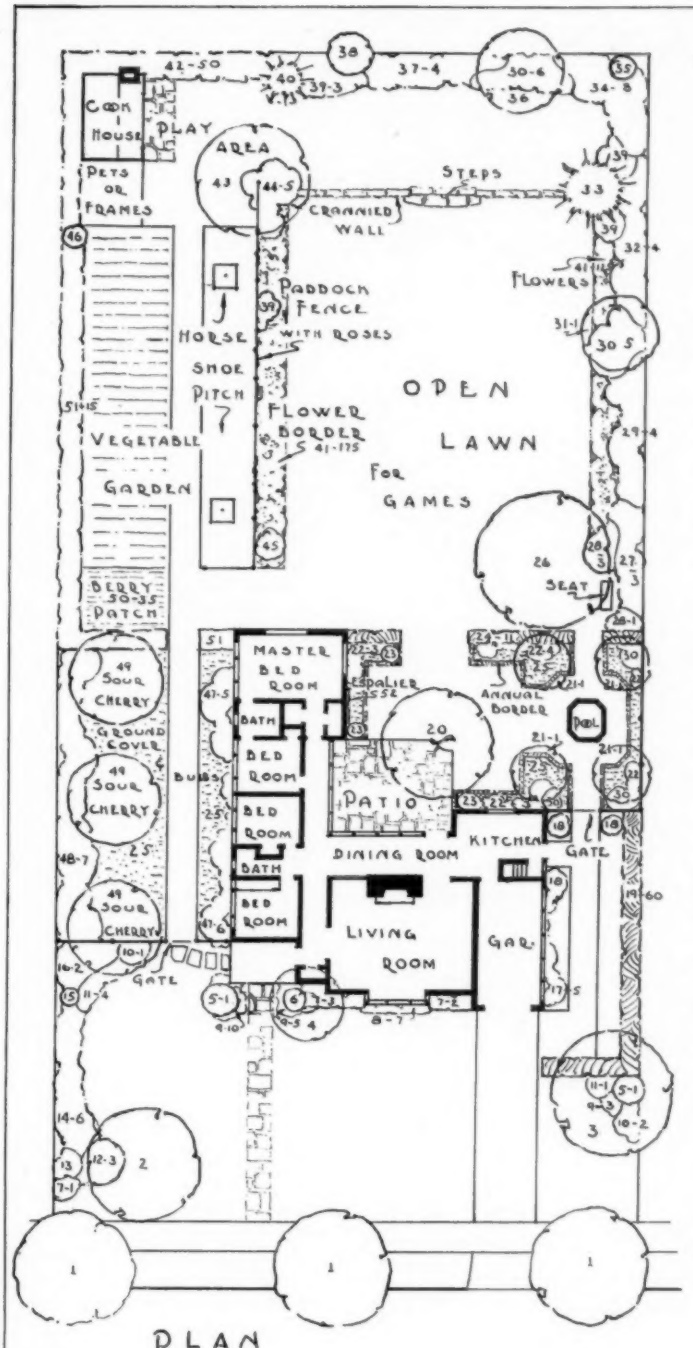
A small shelter (the cook house) boasting a fireplace and play area will be the Mecca for the growing boys and early evening parties. Tools for the near-by vegetable garden may be stored here. In time the pet coops will give place to frames in which tiny plants may be sheltered before setting out. The varnish tree (key 43), with its crooked branches, compound foliage and yellow flowers, occupies an enviable but deserved place in this garden.

Barnyard disciples and dirt gardeners will have a lot in common along the walk to the orchard. Here the seasons, the crops and the country may be discussed and studied between pitches—and possibly mint juleps—as ringers are attempted to attest ones skill at horseshoes. A corral-like atmosphere is suggested by the paddock fence which is used as an arbor for a few roses and to back up the flower border. The use of bush fruits along the property line and the rear vegetable garden increases the productiveness of this whole general area. With the vegetable garden and berry patch, seemingly large enough, and the inclusion of a few sour cherries, this family should be well supplied with fresh garden produce.

Possibly a few of the unusual plants used in this design and not previously discussed deserve special mention. Azalea macrantha (key 11), by reason of its late flowering, will lend a cheerful note after the early display is finished. One of the dwarf quinces, Cydonia maulei (key 22), with its vivid early red flowers, will welcome the spring with the bulbs in the patio garden. The stout deep-colored flowers of Magnolia lennei will carry the magnolia season longer in this garden. Dainty branching spikes of attractive blue flowers in late summer will mark the spots where the vitex (key 39) is growing. Rather slowly, but in time, its soft bluish-green foliage will justify the Pinus cembra (key 40). This pine will never grow out of hand and will ever become a more stately specimen.

The whole general aspect of this garden design should lend itself well to a restful, colorful and productive garden of good balance and easy maintenance. It is designed for the enjoyment and living of the family and its guests. An open carefree feeling is manifest, and both work and play areas are situated in pleasant surroundings.

Stanley A. McIntosh.



PLANT LIST

KEY	QUA.	DESCRIPTION
1	3	Acer platanoides Norway Maple
2	1	Oxydendram Sorrel Tree
3	1	Ginko biloba Maidenhair
4	1	Betula populifolia Birch Clump
5	2	Viburnum burkwoodi Burkwood V.
6	1	Azalea Snow White Azalea
7	6	Ilex Convexa Box leaf Holly
8	7	Buxus angustifolia Low Boxwood
9	10	Iberis semp. 'Snowflake' Candytuft
10	3	Azalea magnifica Bl'w'sh Azalea
11	4	" macrantha Late "
12	3	" hinodegiri Red "
13	1	Ilex rotundifolia Roundleaf Holly
14	6	Euonymus patens Spreading Euon.
15	1	Chamaecyparis obt. gracilis Slender Cypress
16	2	Rhododendron hybrids Hybrid Rho.
17	5	" carolinianum Carolina "
18	3	Ilex glabra Inkberry
19	60	Berberis thunbergi Barberry
20	1	Old Apple with Crooked Trunk
21	4	Syringa - Chas. Joly Hybrid Lilac
22	12	Cydonia maulei Dwarf Quince
23	3	Cotoneaster horizontalis Rock Cot.
24	11	Taxus nana Dwarf Yew
25	400	Ground Cover & Bulbs
26	1	Quercus rubra Red Oak
27	3	Viburnum dilatatum Linden Vib.
28	4	Pieris japonica Andromeda
29	4	Syringa Chinensis Chinese Lilac
30	14	Abelia grandiflora Glossy Abelia
31	1	Magnolia lennei Red Magnolia
32	4	Kolkwitzia amabilis Beauty Bush
33	1	Pinus nigra Austrian Pine
34	3	Viburnum tomentosum Doublefile Vir.
35	1	Cryptomeria lobbi Jap. Cedar
36	1	Malus eleyi Flowering Crab
37	4	Cotoneaster flaccosa Willowleaf C.
38	1	Viburnum lantana Wayfaring Tree
39	8	Vitex macrophylla Chaste Tree
40	1	Pinus cembra Stone Pine
41	300	Perennial & Annual Flowers
42	50	Ligustrum ovali Calif. Privet
43	1	Koelrutera paniculata Varnish Tree
44	5	Spirea thunbergi Thunberg Sp.
45	1	Viburnum carlesi Fragrant Vib.
46	1	Hibiscus w. a. Smith White Althea
47	11	Kalmia latifolia Mt. Laurel
48	7	Viburnum americanum Amer. Cranberry
49	3	Sour Cherry As prefered
50	35	Strawberry Big Joe
51	15	Bush Fruits Black Raspberry
52	1	Espalier Pear

NORTH

A

LANDSCAPE PLAN

FOR THE

RANCH HOUSE

ZONE 4 — NEW JERSEY

SCALE 0 8 16

COMPETITION SPONSERED BY THE
NATIONAL LANDSCAPE NURSERYMEN'S ASSOCIATION & THE AMERICAN NURSERMAN

Living Memorials

OHIO LIVING MEMORIAL.

Garden clubs of Licking county and the Ohio state government are cooperating in the establishment and maintenance of a living memorial honoring all men of the county who served in World War II, according to Frank B. Headley, proprietor of the Pataskala Nursery & Floral Co., Pataskala, O. The memorial is to consist of native flowering trees planted in Moundbuilders park, near the county seat, Newark, O.

The size of the memorial is to be determined by the number of trees provided as volunteer gifts of organizations and individuals. Garden clubs of the county are conducting a campaign to raise a fund of $2,000. The trees are to be purchased by the state from reliable nurserymen at twenty per cent discount.

State funds will meet the expenses of planting the trees, replacing any that may die and assuring them perpetual care. Only select trees of eight to ten feet in height and only native Ohio trees, the redbud, pink and white dogwood, cockspur thorn, shad-blow, or serviceberry, and wild sweet crab, are to be planted. Thus, the memorial trees will be those which are adaptable to their environment, and the authenticity of the Moundbuilders park will be preserved. Because the memorial will be situated in a state park, it will not be allowed to deteriorate, and the trees will receive the care necessary for the continued success of the living memorial.

IN CENTRAL KANSAS.

Two small central Kansas communities are among those which planted war memorial parks in 1946. At White City, a small municipal war memorial park was sponsored by the local women's club and several other civic groups. This is a small naturalistic park, containing American elms and honey locusts, with other trees and shrubs, grouped about a picnic ground and a playground area in two city squares. At Westmoreland the American Legion war memorial park is larger in extent and more elaborate in design and construction.

The Westmoreland park was designed and executed by George M. Fisher, Lawrence, Kan., who prepared the White City plan for the Kansas City Landscape & Nursery Co., Salina, which executed the latter project. This firm furnished the planting stock for both of these living memorials. The retail value of the stock going into the Westmoreland planting was $483 and for the White City job $259. Except for a few items left for spring planting at White City, the planting work on both projects is now completed.

The utility and memorial structures are partly finished in the Westmoreland park and will be completed during the coming year, consisting of appropriate memorial units, shelter house and picnic facilities, playground equipment and water fountain. The local American Legion post assumed the responsibility of the Westmoreland project, canvassing the entire community for construction and sustaining funds before giving the consultant landscape architect the go-ahead signal.

Individual designs are now under way for completing the development of the White City park. Over $900 in additional funds has been raised among individuals and groups for commemorating structures, and utility development of this park with memorials, tablets, fountains, playground and picnic facilities. Both communities were alert, in the original planning budgets, to the perpetuation of their memorials and had the necessary funds earmarked for permanent maintenance of the parks and facilities.

"It is indeed remarkable to find small communities such as these, both of these being county seat towns of less than 600 population, taking such an interest and giving sound and adequate financial support toward living war memorials," comments Mr. Fisher. "This trend, which I believe is manifesting itself all over the country, should be indeed encouraging to those who are promoting interest in living memorials."

CONFER ON CHANGES AT MISSISSIPPI STATE.

Representatives of the Mississippi Florists' and Nurserymen's Association at a recent all-day session at Mississippi State College recommended four changes in the horticultural research and teaching programs to be incorporated as features of the $40,000 horticultural improvement program now in progress. The association set forth the following 4-point program: (1) Increased research on commercial flower production; (2) a series of practical short courses of benefit to commercial nurserymen and florists; (3) more emphasis on the practical side of instruction, with laboratory practice required, and (4) changes in the curriculum to include many more courses in floriculture and nursery practices.

During the day the group conferred with Fred T. Mitchell, president of the college; Frank Welch, dean of the school of agriculture; Clarence Dorman, director of the experiment station; L. I. Jones, director of the extension service, and W. S. Anderson, head of the horticultural department. Points stressed during the conferences were the rapid growth of floriculture in the state and the need that Mississippi State College become outstanding in that field.

The group was headed by the association president, I. H. Bass, Jr., Lumberton, and included William Cabaniss, John Harkins and John Sanders, all of Jackson; Bill Adams, Gulfport; John Stemme and P. W. Reeves, both of Hattiesburg; A. P. Miller, Columbus, and Frank Sinclair, Meridian.

Also on the agenda were visits to the various projects under way as part of the expansion program, including the new horticulture field house, a half-completed greenhouse and the other greenhouses, all of which are being modernized.

TANKARDS REORGANIZE.

John E. Tankard, who has had extensive experience as an agriculturist, a county agent and as the general manager of the Eastern Shore of Virginia Produce Exchange, a cooperative marketing agency, has joined his brother, S. D. Tankard, Jr., as a partner in the operation of the Tankard Nurseries, Franktown, Va.

S. D. Tankard, Jr., who is marking his twentieth year in the nursery and landscape business, was with the Howard-Hickory Co., Hickory, N.C., until last April, when he reestablished the Tankard enterprise, a wholesale and retail concern specializing in azaleas and growing a general line of ornamentals.

The two brothers plan to expand the nurseries in the coming years and will temporarily continue the operation of their truck farms.

FORMERLY in the nursery business as Flower Garden Nursery, Langhorne, Pa., T. L. Ackerman will start a landscape service with a nursery of perennials and flowering shrubs at Ticonderoga, N. Y., in the spring.

1947 All-America Selections in Annuals

All-America Selections for 1947 include three awards for vegetables and four awards for flowers. These awards are made only after extensive 2-year trials in seventeen trial gardens located at points in the United States and Canada to give the maximum range of climatic and soil conditions. Each garden is observed by a judge, and five sectional judges visit the different trial grounds and make their selections. Only the best of the new varieties can successfully come through these extensive tests.

The flower selections included two all-double petunias, an antirrhinum and a French marigold.

A silver medal was awarded to Petunia Mrs. Dwight D. Eisenhower. The plant grows to a height of sixteen inches and a diameter of thirty inches, with an erect and bushy habit of growth. The salmon-pink color of the double 2¾-inch blooms comes true from seeds. The foliage is carried well up the stems around the flowers. The plants are recommended for bedding, borders and cutting, and the color is commended as being unusual and attractive.

Rose Marie, the other double petunia receiving an award, won a bronze medal. The fairly erect plants grow to a height of eighteen inches and a diameter of about thirty inches. The 3-inch flowers are a self-colored rose-pink and are borne above the foliage. The stems are well covered with foliage. This variety is also recommended for bedding, borders and cut flowers.

The antirrhinum, Velvet Giant, produces unusually large spikes of rich crimson with an undertone of orange-bronze. This snapdragon was awarded a bronze medal. The habit of growth is vigorous, and the plant attains a height of about two and one-half feet. Six to twelve spikes per plant are normally produced and bear long flower heads with exceptionally large individual flowers. The name is derived from the velvety texture and aspect of the flowers.

An honorable mention was given to Naughty Marietta, a new French marigold, the plants of which grow to a height of twelve to fifteen inches and have a spread of about sixteen inches. The flowers are from two to two and one-half inches across, and the color is golden-yellow with mahogany markings at the petal bases. Plants in full bloom are completely covered with flowers. They are recommended for beds and borders and for cutting for low arrangements.

All flowers winning awards in the All-America Selections for 1947 were W. Atlee Burpee Co. originations.

The vegetables receiving awards were Bronze Beauty lettuce, which won a bronze medal; Ranger snap bean, which also won a bronze medal, and Erie sweet corn, which received an honorable mention.

TRIAL OF ANNUALS.

The tenth annual report on the performance of annuals, at the Pennsylvania agricultural experiment station, State College, Pa., was recently published. According to the report, 232 varieties of annuals were tested. Entitled "Trials of Annual Flowers, 1946," the mimeographed report was prepared by Dr. E. I. Wilde and John R. Culbert.

The records were made about August 10, when the plants were at their best, for size and color of flower, height of plant, uniformity and garden value. Tests were conducted on most of the more important garden annuals, a few of the less commonly grown varieties and twenty-one varieties in the All-America Selections tests of 1946.

The test results are presented in convenient table form to facilitate comprehension.

Data include the variety name, test index number, flower or head diameter, number of plants available for test purposes, whether single or double, average height, color, mean percentage off type and pertinent remarks.

The last two pages of the report are devoted to conclusions derived from the various test results.

NORTH DAKOTA INSPECTION.

During the past year thirty-four nurseries were inspected and certified in the state of North Dakota, reports J. A. Munro, state entomologist.

On the inspection trips, attention was given to insect pest problems, particularly those of shade trees and shelterbelts. In Benson county the larvae of the variable oak leaf caterpillar had completely defoliated the basswood and then dispersed to elm and, to a lesser extent, to green ash. Above Devils Lake a solid block of at least 300 acres was observed which had been completely stripped of leaves.

In Burleigh county certain varieties of honeysuckle were defoliated by blister beetle, while in adjacent rows other varieties of honeysuckle were uninjured. This defoliation emphasized the importance of carefully selecting resistant varieties where this species of blister beetle, Lytta sphaericollis, is troublesome.

Mrs. Dwight D. Eisenhower Petunia, Velvet Giant Snapdragon, Rose Marie Petunia and Naughty Marietta Marigold.

CUMBERLAND VALLEY NURSERIES, Inc.

Phone No. 97-R — McMinnville, Tennessee — J. R. Bragg, President

WHOLESALE PRICE LIST

We have just finished grading and assembling stock and give you below Grade Count Surplus on Fruit Stock, which we are offering for immediate acceptance. All stock is strictly first class, and fully up to grades specified. We exercise the greatest care in keeping our varieties true to name and will replace, upon proper proof, any that may prove otherwise, or refund the purchase price, but it is mutually agreed that we shall not be liable for any amount greater than the purchase price.

Prices are F.O.B. Nursery, with packing additional at cost. No charge is made for loading bulk cars, or customers' trucks. Usual terms to those with established credit; otherwise, cash with order. C.O.D. orders must be accompanied by 25% cash. We have storage facilities, and stock is available for immediate delivery.

APPLE

	2-yr. Branched			1-yr. Whips				
	11/16-in.	9/16-in.	7/16-in.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
VARIETIES	**50c**	**40c**	**30c**	**30c**	**25c**	**20c**	**15c**	**10c**
Anoka	475	750	365	150	2050	3350	750	250
Baldwin	....	.....	....	785	165	140	40	20
Cortland	....	.....	....	90	310	800	240	90
Delicious, Dark Red	....	.....	700	4400	3775	1800	685	225
Delicious, Yellow	....	.....	240	....	925	1390	550	350
Duchess, All Red	20	10	20	....	75	200	50	....
Grimes Golden	....	.....	....	1700	2000	800	225	....
Hackworth	60	90	50	....	25	30	10	....
Jonathan, All Red	....	60	130	....	100	75	.....	....
Kendall	....	40	80	....	....	75	.....	....
Kinnard Choice	....	.....	....	230	735	485	130	100
Maiden Blush	....	60	65	750	750	350	50	15
Mammoth Black Twig	365	55	....	....	....	....	.....	....
Milton	....	30	60	700	580	290	40	15
McIntosh, All Red	20	.....	20	....	....	175	90	25
Early McIntosh	65	.....	....	80	280	385	65	50
N. W. Greening	55	50	20	60	95	85	15	10
Red Northern Spy	150	150	....	825	610	510	100	40
Red Rome Beauty	....	.....	....	175	400	925	200	110
Early Red Bird	....	.....	....	135	340	440	140	75
Stayman Winesap, All Red	....	....	....	815	375	610	265	165
Turley Winesap	250	70	145	960	950	750	200	75
Transcendent Crab	120	80	40	....	135	30	.....	....
Wealthy	....	.....	....	50	10	610	175	100
Winter Banana	50	70	40	....	....	....	....	....
Yates	130	80	....	280	335	140	35	....
Yellow Transparent	....	10	590	1495	1430	830	180	65
York Imperial	250	.....	190	....	50	50	.....	....
Floribunda Fl. Crab	....	25	180	20	20	50	.....	....

PEAR—1-yr. and 2-yr.

	11/16-in.	9/16-in.	7/16-in.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
VARIETIES	**90c**	**80c**	**70c**	**70c**	**60c**	**50c**	**40c**	**30c**
Bartlett	....	.....	....	....	400	470	135	125
Clapp Favorite	120	85	75	10	50	55	.....	....
Douglas	55	40	....	10	315	400	75	65
Duchess	80	15	15	....	....	50	30	....
Early Harvest	10	45	300	140	270	185	45	25
Flemish Beauty	80	15	35	10	40	25	10	....
Garber	190	85	80	270	740	775	365	295
Kieffer	....	385	1010	400	2165	2010	620	620
Seckel	....	20	30	60	125	65	35	....

PEACH—1-yr. and June Buds

VARIETIES	7/16-in. 35c	5/16-in. 22½c	3 to 4 ft. 25c	30 to 36 ins. 20c	24 to 30 ins. 17½c	18 to 24 ins. 12½c	12 to 18 ins. 9c	6 to 12 ins. 5c
Augbert	1100	950	70	175	....	1185	400	35
Belle of Georgia	490	125	....	875	650	2100	1350	375
Carman	60	350	....	....	....	710	770	540
Champion	....	.....	....	140	....	635	475	475
Elberta	....	17025	3000	1750	3725	22500	10350	3400
Early Elberta	....	.....	....	50	....	2750	2500	875
Early Rose	245	910	....	60	....	1200	880	565
Golden Jubilee	....	6575	275	2775	965	7840	8740	1375
Gage Elberta	80	45	15	115	325	420	.....	....
Halehaven	....	.....	....	....	....	930	700	385
Hiley Belle	470	1615	....	50	....	2125	2000	1425
Early Hiley	900	1640	....	250	....	1320	820	100
J. H. Hale	10	.....	60	....	....	35	800	195
Heath Cling	165	125	....	....	....	350	475	185
Indian Red	295	180	100	....	....	675	900	650
Mayflower	180	425	....	30	....	360	500	270
Red Bird	310	445	....	50	....	435	450	230
Redhaven	....	265	....	65	....	2950	2300	1200
Rochester	135	.....	....	....	....	850	650	600
Shipper's Late Red	100	10	20	....	25	460	1075	200
Southhaven	....	.....	....	....	40	1245	825	300

APRICOT, PLUM, NECTARINE

VARIETIES	11/16-in. 70c	9/16-in. 60c	7/16-in. 50c	5/16-in. 30c	4 to 5 ft. 40c	3 to 4 ft. 35c	2 to 3 ft. 25c	18 to 24 ins. 20c	12 to 18 ins. 15c
Early Golden	...	40	390	...	670	90	230	...	25
Moorpark	...	...	265	...	625	200	385	100	50
Superb	...	...	460	35	480	20	200	75	35
Abundance	...	...	1020	25	1075	800	350	110	25
Burbank	55	...	50	45	35	25	....	...	...
Botan	...	15	220	...	215	300	220	75	10
Bruce Gold	...	...	140	...	690	760	260	40	...
Kelsey	10	60	110	...	150	200	135	50	...
Munson	...	...	200	...	50	345	75	10	...
Red June	...	...	15	25	1295	1340	45	15	...
Wickson	30	...	300	100	55	....	25	...	...
Shropshire Damson	...	40	700	310	500	1125	1410	610	110
Hunter Nectarine	150	460	795	195	....	595	1335	370	...

SOUR CHERRY

VARIETIES	11/16-in.	9/16-in.	7/16-in. 75c	5/16-in. 65c	4 to 5 ft.	3 to 4 ft. 65c	2 to 3 ft. 60c	18 to 24 ins. 50c	12 to 18 ins.
Early Richmond	...	...	545	240	....	300	245	165	...
Montmorency	...	...	165	50	....	....	....	150	...

SWEET CHERRY

VARIETIES	11/16-in. $1.25	9/16-in. $1.00	7/16-in. 90c	5/16-in. 80c	4 to 5 ft.	3 to 4 ft. 90c	2 to 3 ft. 80c	18 to 24 ins. 65c	12 to 18 ins.
Black Tartarian	200	60	230	75	....	35	....	25	...
Gov. Wood	630	460	340	80	....	100	60	45	...

	11/16-in. $1.00	9/16-in. 90c	7/16-in. 80c
5-N-1 Multiple Variety Apple	500	2350	670

Above stock has not been offered to trade previously, as we have just finished Grade Count, and same is offered subject to prior sale. We urge that you place your order immediately. See our representative, **J. R. Bragg,** at Chicago Meeting.

CUMBERLAND VALLEY NURSERIES, Inc.

McMinnville, Tennessee

Member of American, Western, Southern, and Tennessee Associations of Nurserymen; also National Mail Order Association, National Landscape Nurserymen's Association and American Pomological Society.

VIRUS RESEARCH GIFT.

Special research on methods of controlling a little known virus disease affecting cherry trees will be conducted in Door county by the University of Wisconsin college of agriculture as a result of a $7,500 gift accepted last month by the school's board of regents.

The donors are the Fruit Growers' Cooperative, Reynolds Bros., Inc., and Martin Orchard Co., all of Sturgeon Bay, Wis. The three will contribute in proportion to the tonnage of cherries they handle.

The reason for the gift is to enable the university to carry on this program in addition to other fruit studies that growers do not wish to interrupt. The money is enough to pay for the research for three years.

Dewey Moore, university plant pathologist, has learned much about the disease from coming in contact with it in Door county.

The disease spreads slowly. In fact, it has been known to take two years to infect an adjacent tree. It does not kill the tree, but cuts the yield.

ARBORISTS' COURSE.

A 2-week short course for commercial arborists and municipal shade tree men started January 10 at Rutgers University, New Brunswick, N. J., under the direction of Dr. P. P. Pirone, of the New Jersey agricultural experiment station. The course consists of two lectures every Friday afternoon. Besides the regular Rutgers staff members, several prominent arborists were scheduled to lecture, among them Ralph Kaufmann, director of training for the Asplundh Tree Expert Co., Jenkintown, Pa.; Winston Parker, landscape forester, Moorestown, N. J., and Norman Armstrong, White Plains, N. Y. The lectures include all phases of modern shade tree care.

ISSUE NEW DEFINITION OF "AREA OF PRODUCTION."

A new definition of "area of production," a term used to determine the application of certain exemptions from the minimum wage and overtime provisions of the fair labor standards act with respect to employees engaged in specified operations related to the processing and handling of agricultural products, was issued December 25 by L. Metcalfe Walling, administrator of the wage and hour and public contracts divisions of the United States Department of Labor.

The redefinition was made necessary when the Supreme Court, in the

EVERGREENS IN TRUCK OR CARLOTS

Regret No Boxing

We quote the following prices on lots of 10 or more; for less than 10, add 10 per cent.

EVERGREENS, CONIFEROUS

Arborvitae, American, 3 to 4 ft.	$2.50
Arborvitae, American Pyramidal, 3 to 4 ft.	3.00
4 to 5 ft.	4.00
Arborvitae, Berckmans Golden, 18 to 24 ins.	2.25
24 to 30 ins.	2.75
30 to 36 ins.	3.50
Arborvitae, Globe, 18 to 21 ins.	2.75
21 to 24 ins.	3.50
Hemlock, Canadian, 2 to 3 ft.	2.50
3 to 4 ft.	3.50
4 to 5 ft.	4.75
Juniper, Andorra, 24 to 30 ins.	2.00
30 to 36 ins.	2.50
3 to 4 ft.	3.50
Juniper, excelsa stricta, 18 to 24 ins.	2.00
24 to 30 ins.	2.50
Juniper, Irish, 4 to 5 ft.	2.50
5 to 6 ft.	3.25
6 to 7 ft.	4.00
Juniper, Meyer's Blue, 18 to 24 ins.	$2.00
24 to 30 ins.	2.75
30 to 36 ins.	3.50
Juniper, Pfitzer's, 30 to 36 ins.	2.75
36 to 42 ins.	3.75
Juniper, Savin, 30 to 36 ins.	2.50
36 to 42 ins.	3.00
Pine, Austrian, 3 to 4 ft.	2.50
4 to 5 ft.	3.25
5 to 6 ft.	4.00
6 to 7 ft.	5.00
Pine, Mugho, 18 to 24 ins.	2.25
24 to 30 ins.	2.75
30 to 36 ins.	3.25
Pine, Ponderosa, 3 to 4 ft.	2.50
Pine, Red (resinosa), 3 to 4 ft.	2.50
4 to 5 ft.	3.25
Pine, Scotch, 4 to 5 ft.	2.75
5 to 6 ft.	3.50
Retinospora plumosa, 2 to 3 ft.	2.00
3 to 4 ft.	2.75
Retinospora squarrosa veitchi, 2 to 3 ft.	2.25
3 to 4 ft.	3.00

EVERGREENS, BROAD-LEAVED

	Per 100
Buxus sempervirens (Standard Box), 6 to 8 ins., 4-yr. T.	$20.00
Buxus sempervirens (Standard Box), 8 to 10 ins., 5-yr. T.	25.00
Buxus sempervirens (Standard Box), 10 to 12 ins., 6-yr. T.	30.00
Buxus suffruticosa (Dwarf Box), 6 to 8 ins., 5-yr. T.	25.00
Buxus suffruticosa (Dwarf Box), 8 to 10 ins., 6-yr. T.	30.00
Buxus suffruticosa (Dwarf Box), 10 to 12 ins., 7-yr.	40.00

Abelia grandiflora, 2 to 3 ft., B&B.	$1.50
3 to 4 ft., B&B.	2.00
Eleagnus fruitlandi, 18 to 24 ins.	1.50
2 to 3 ft.	2.00
3 to 4 ft.	2.50
English Laurel, 2 to 3 ft.	2.50
3 to 4 ft.	3.50
Erica gracilis, 5-yr. clumps.	.75
Euonymus patens, 18 to 24 ins.	1.25
24 to 30 ins.	1.75
30 to 36 ins.	2.25
Hypericum moserianum, 4-yr. clumps	.75
Ligustrum lucidum, 2 to 3 ft.	2.00
3 to 4 ft.	2.75
Mahonia aquifolia, 24 to 30 ins.	2.00
30 to 36 ins.	2.75
Nandina domestica, 18 to 24 ins.	$1.50
Pyracantha angustifolia, 2 to 3 ft.	1.75
Pyracantha lalandi, 2 to 3 ft.	1.75
3 to 4 ft.	2.00
Pyracantha rogersi, 2 to 3 ft.	2.00
3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	4.50
Rhododendron catawbiense, 2 to 3 ft.	2.25
Rhododendron maximum, 2 to 3 ft.	2.00
Viburnum rhytidophyllum, 2 to 3 ft.	2.00
3 to 4 ft.	2.75
4 to 5 ft.	3.75
5 to 6 ft.	4.50

WAYNESBORO NURSERIES, INC.

Waynesboro, Virginia

LINING-OUT EVERGREENS

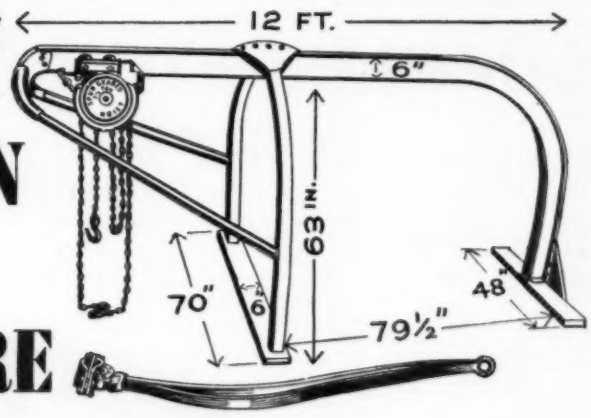
All once transplanted. Grown in beds for 3 years. Can be planted directly in field. No order for less than 100; no variety less than 25 trees. Shipped after March 15. Cash with order, packing free. These prices for trade only; use business stationery.

		Each
500	**Buxus sempervirens,** 4 to 8 ins.	$0.15
1300	**Chamaecyparis pisifera filifera,** 8 to 10 ins.	.30
2000	**Euonymus fortunei coloratus** (twice tr.), 10 to 12 ins.	.30
1500	**Euonymus fortunei radicans** (twice tr.), 8 to 10 ins.	.30
7500	**Juniperus pfitzerians,** 6 to 8 ins.	.30
1700	**Juniperus communis depressa,** 8 to 10 ins.	.30
2000	**Juniperus communis hibernica,** 6 to 8 ins.	.25
3500	**Juniperus communis suecica,** 6 to 8 ins.	.30
3400	**Juniperus communis plumosa,** 6 to 8 ins.	.25
8000	**Juniperus sabina,** 6 to 8 ins.	.27
1600	**Juniperus virginiana kosteri,** 4 to 8 ins.	.30
4000	**Thuja occidentalis columbia,** 6 to 8 ins.	.25
1400	**Thuja occidentalis compacta,** 6 to 8 ins.	.25
2000	**Thuja occidentalis pumila (Little Gem),** 4 to 6 ins.	.25
6500	**Thuja occidentalis pyramidalis,** 6 to 8 ins.	.30
3800	**Thuja occidentalis recurva,** 4 to 8 ins.	.25
2000	**Thuja occidentalis umbraculifera,** 4 to 8 ins.	.25
3000	**Thuja occidentalis wareana,** 6 to 8 ins.	.27
6500	**Thuja occidentalis woodwardi,** 6 to 8 ins.	.25

STEDMAN NURSERIES

Newfane, Niagara County, N. Y.

U.S. WAR SURPLUS



TROLLEY CHAIN HOIST with SUPERSTRUCTURE

Ideal for LIFTING, LOADING and setting NURSERY STOCK

- BRAND-NEW
- 1½-TON CAP.
- WRIGHT or YALE HOIST
- MOUNTS ON ANY TRUCK
- COMPLETE

SAVES TIME AND LABOR

One man does the work of many! This great lifting, loading and setting hoist is a natural for the nurseryman. Converts any truck for the job. The full 1½-ton spur-geared hoist with its complete superstructure and safety lock is a safe investment for years of money-saving work around the nursery. In this great war-surplus bargain you save one-half the original cost. Satisfaction guaranteed! Order today.

IMMEDIATE SHIPMENT—F.O.B. CHICAGO

REGULAR $380.00 VALUE

$184.50 EACH

IN LOTS OF 3, EACH $169.50

B.M.K. SALES, INC.

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CHICAGO 16, ILLINOIS

SURPLUS STOCK for immediate or Spring shipment

O. H. PERRY NURSERY CO.

Box 545 — Telephone 375-X

McMinnville, Tenn.

Due to the heavy Fall business and generous Spring orders already booked, we are completely sold out on many items usually listed. Some items are available in limited quantities, and we expect to sell out early on such items. We appreciate your early orders and are offering you 10% DISCOUNT AND FREE PACKING FOR ALL ORDERS ACCOMPANIED BY CASH IN FULL RECEIVED BEFORE FEBRUARY 1, 5% and free packing after this date for cash in full with order. C.O.D. orders must be accompanied by 25% cash. 2%, ten days; 30 days net to approved accounts.

ABBREVIATIONS: S—Seedlings, C—Cutting-grown, Br. Standard grade branched, Tr.—Transplanted.

SHADE AND ORNAMENTAL TREES

	Per 10	Per 100	Per 1000
Acer Dasycarpum. Silver Maple.			
6 to 12 ins., S.	...	$ 0.75	$ 6.00
12 to 18 ins., S.	$0.15	1.00	8.00
18 to 24 ins., S.	.20	1.50	12.00
Acer Rubrum. Red Maple.			
Acer Saccharum. Sugar Maple.			
6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.35	2.50	20.00
18 to 24 ins., S.	.45	3.00	25.00
2 to 3 ft., S.	.50	4.00	35.00
3 to 4 ft., S.	1.25	10.00	....
4 to 5 ft., S., Br.	4.00	30.00	....
Amelanchier Canadensis. Downy Shadblow.			
12 to 18 ins., S.	.60	5.00	....
18 to 24 ins., S.	.75	6.00	....
2 to 3 ft., S.	1.00	8.00	....
Asimina Triloba. Pawpaw.			
12 to 18 ins., S.	.60	5.00	....
18 to 24 ins., S.	1.00	8.00	....
2 to 3 ft., S., Br.	2.00	15.00	....
Betula Nigra. River Birch.			
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.35	2.50	20.00
2 to 3 ft., S.	.45	3.00	25.00
4 to 5 ft., S., Br.	2.00	15.00	....
5 to 6 ft., S., Br.	4.00	30.00	....
Carpinus Caroliniana. American Hornbeam.			
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.35	2.50	20.00
2 to 3 ft., S.	.50	4.00	35.00
4 to 5 ft., Br.	4.00	30.00	....
Cercis Canadensis. American Redbud.			
6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.45	3.00	25.00
2 to 3 ft., S.	.50	4.00	35.00
3 to 4 ft., S., Br.	2.50	20.00	150.00
4 to 5 ft., well Br.	4.00	35.00	....
Cornus Florida. White-flowering Dogwood.			
2 to 3 ft., S., Br.	1.25	10.00	....
3 to 4 ft., S., Br.	2.50	20.00	....
4 to 5 ft., S., Br.	4.00	35.00	....
Diospyros Virginiana. American Persimmon.			
3 to 6 ins., S.	.20	1.50	12.00
Fagus Americana. American Beech.			
6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.35	2.50	20.00
2 to 3 ft., S., Br.	1.00	8.00	....
3 to 4 ft., S., Br.	2.00	15.00	....
Fraxinus Americana. White Ash.			
Fraxinus Lanceolata. Green Ash.			
6 to 12 ins., S.	...	1.00	8.00
12 to 18 ins., S.	.20	1.50	12.00
18 to 24 ins., S.	.30	2.00	15.00
2 to 3 ft., S.	.35	2.50	20.00
5 to 6 ft., Br.	3.50	30.00	....
6 to 8 ft., Br.	6.00	50.00	....

	Per 10	Per 100	Per 1000
Hicoria Laciniosa. Shellbark Hickory.			
Hicoria Ovata. Shagbark Hickory.			
2 to 3 ft., S.	$3.00	$25.00	....
3 to 4 ft., S.	6.00	50.00	....
4 to 5 ft., S.	9.00	75.00	....
Juglans Nigra. Black Walnut.			
2 to 3 ft., S., Br.	2.00	15.00	....
3 to 4 ft., S., Br.	3.50	30.00	....
Liquidambar Styraciflua. Sweet Gum.			
12 to 18 ins., S.	.50	4.00	$35.00
18 to 24 ins., S.	.60	5.00	45.00
4 to 5 ft., S., Br.	2.50	20.00	....
5 to 6 ft., well Br.	6.00	50.00	....
6 to 8 ft., well Br.	9.00	75.00	....
Liriodendron Tulipifera. Tulip Tree.			
6 to 12 ins., S.	.20	1.25	10.00
12 to 18 ins., S.	.25	2.00	15.00
18 to 24 ins., S.	.30	2.50	20.00
2 to 3 ft., S.	.35	3.00	25.00
3 to 4 ft., S.	.60	5.00	40.00
12 to 18 ins., Tr.	1.00	8.00	....
18 to 24 ins., Tr.	1.50	12.00	....
2 to 3 ft., Tr.	2.50	20.00	....
4 to 5 ft., Br.	5.00	40.00	....
5 to 6 ft., Br.	6.00	50.00	....
6 to 8 ft., Br.	9.00	75.00	....
Magnolia Acuminata. Cucumber Tree.			
3 to 6 ins., S.	.35	3.00	25.00
6 to 12 ins., S.	.60	5.00	45.00
12 to 18 ins., S.	1.00	8.00	....
Morus Rubra. Red Mulberry (American).			
2 to 3 ft., S.	.60	5.00	....
3 to 4 ft., S.	1.00	8.00	....
4 to 5 ft., Br.	4.00	35.00	....
5 to 6 ft., Br.	6.00	50.00	....
Oxydendrum Arboreum. Sourwood.			
6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., Br.	1.00	8.00	....
2 to 3 ft., Br.	1.50	12.00	....
Platanus Occidentalis. Am. Plane Tree.			
4 to 6 ins., S.	...	1.00	8.00
6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.25	2.00	15.00
5 to 6 ft., Br.	5.00	40.00	....
6 to 8 ft., Br.	9.00	75.00	....
Prunus Serotina. Black Cherry (Native).			
12 to 18 ins., S.	.60	5.00	....
18 to 24 ins., S.	.75	6.00	....
3 to 4 ft., Br.	2.50	20.00	....
4 to 6 ft., Br.	5.00	40.00	....

	Per 10	Per 100	Per 1000
Quercus Alba. White Oak.			
Quercus Phellos. Willow Oak.			
Quercus Rubra. Red Oak.			
12 to 18 ins., S.	$0.60	$ 5.00	....
18 to 24 ins., S.	.75	6.00	....
5 to 6 ft., Br.	7.50	60.00	....
6 to 8 ft., Br.	12.50	90.00	....
Salix Nigra. Marsh Willow.			
12 to 18 ins., S.	.30	2.50	$20.00
18 to 24 ins., S.	.35	3.00	25.00
2 to 3 ft., S.	.40	3.50	30.00
Sassafras Varilifolium. Common Sassafras.			
12 to 18 ins., S.	.35	3.00	25.00
18 to 24 ins., S.	.40	3.50	30.00
Tilia Americana. American Linden.			
4 to 6 ins., S.	.30	2.50	20.00
6 to 12 ins., S.	.40	3.50	30.00
12 to 18 ins., S.	.50	4.50	40.00
18 to 24 ins., S.	.70	6.00	50.00
2 to 3 ft., S.	.90	8.00	....
3 to 4 ft., S.	1.50	12.00	....
Ulmus Alata. Winged Elm.			
4 to 5 ft., well Br.	3.00	25.00	....
5 to 6 ft., well Br.	5.00	40.00	....
6 to 8 ft., well Br.	9.00	75.00	....
Melia Umbraculiformis. Umbrella Chinaberry.			
6 to 12 ins., S.	.35	3.00	....
12 to 18 ins., S.	.45	4.00	....
18 to 24 ins., S.	.60	5.00	....

VINES AND CREEPING PLANTS

	Per 10	Per 100	Per 1000
Bignonia Radicans. Trumpet Creeper.			
6 to 12 ins., 1-yr.	$0.25	$ 2.00	$15.00
12 to 18 ins., 1-yr.	.35	3.00	25.00
18 to 24 ins., heavy	1.25	10.00	....
Celastrus Scandens. Bittersweet.			
6 to 12 ins., S.	.25	2.00	15.00
12 to 18 ins., S.	.30	2.50	20.00
6 to 12 ins., C. (fruiting)	.35	3.00	25.00
12 to 18 ins., C. (fruiting)	.45	4.00	35.00
18 to 24 ins., C. (fruiting)	.75	6.00	50.00
Lonicera Japonica Halliana. Hall's Japanese Honeysuckle.			
6 to 12 ins., liners	...	1.00	8.00
12 to 18 ins., liners	...	1.50	12.00
12 to 18 ins., Br.	.45	4.00	35.00
18 to 24 ins., Br.	.75	6.00	50.00
1000 Hall's Honeysuckle free with each 10,000 ordered, same grade.			
Vinca Minor. Hardy Myrtle.			
Medium liners, 1 to 3 leads	...	1.25	10.00
Medium clumps, 3 to 5 leads	.35	3.00	25.00
Heavy clumps, 5 to 10 leads	.75	6.00	50.00
1000 Vinca Minor free with each 10,000 of the same grade.			
Vitis Aestivalis. Summer Grape.			
6 to 12 ins., S.	.30	2.50	20.00

Holly Hill Fruit Products case, invalidated a former definition which included a test limiting to seven the number of employees in an establishment who might qualify for the exemptions. The court held that "area of production" could not be defined in terms of the number of employees in an establishment.

Therefore, the redefinition, which was published in the Federal Register December 25 in the form of a regulation, is expressed in terms of mileage and population only. From best available sources it has been estimated that 1,350,000 employees in 100,000 establishments will be affected by the definition.

Two types of exemptions from the act's minimum wage (40 cents an hour) and overtime pay (time and one-half after forty hours in a week) provisions are dependent upon whether the operations are performed within the "area of production." They are:

Type I—Complete exemption from both the minimum wage and overtime provisions (under section 13 (a) (10) of the act) for employees engaged in handling, packing, storing, ginning, compressing, pasteurizing, drying, preparing in their raw or natural state, or canning of agricultural or horticultural commodities for market, or in making cheese or butter or other dairy products.

Type II—Exemption, not to exceed fourteen weeks a year, during seasonal operations from the overtime pay provisions only (under section 7(c) of the act) with respect to

DECIDUOUS FLOWERING SHRUBS, HEDGE PLANTS, ETC.

	Per 10	Per 100	Per 1000
Aronia Arbutifolia. Red Chokeberry.			
Aronia Melanocarpa. Black Chokeberry.			
12 to 18 ins., liners	...	$ 1.50	$12.00
18 to 24 ins., liners	...	2.00	15.00
Calycanthus Floridus. Sweet Shrub.			
18 to 24 ins., Br.	$3.00	25.00	....
2 to 3 ft., Br.	4.00	35.00	....
Callicarpa Americana. American Beautyberry.			
12 to 18 ins., S.	.35	3.50	30.00
18 to 24 ins., S.	.50	4.50	40.00
2 to 3 ft., Br.	2.00	15.00	....
3 to 4 ft., Br.	3.00	25.00	....
Ceanothus Americana. Jersey Tea.			
12 to 18 ins., Br.	1.50	12.00	....
18 to 24 ins., Br.	2.50	20.00	....
Cornus Amomum. Silky Dogwood.			
6 to 12 ins., C.	.25	2.00	15.00
12 to 18 ins., C.	.35	3.00	25.00
18 to 24 ins., 1-yr. C.	.45	4.00	35.00
12 to 18 ins., Br.	.75	6.00	....
18 to 24 ins., Br.	1.00	8.00	....
Cornus Stolonifera. Red Osier Dogwood.			
4 to 6 ins., S.	...	1.00	8.00
6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.25	2.00	15.00
Corylus Americana. Am. Hazelnut.			
12 to 18 ins., divisions	.50	4.00	30.00
3 to 4 ft., Br.	4.00	35.00	....
Cydonia Japonica Rubra. Red-flowering Japanese Quince.			
6 to 12 ins., 1-yr. C.	1.00	8.00	....
Deutzia Scabra (Crenata) Rosea (Double).			
Deutzia Scabra Pride of Rochester. Fortune Forsythia.			
6 to 12 ins., C.	.25	2.00	15.00
12 to 18 ins., C.	.35	3.00	25.00
12 to 18 ins., Br.	.60	5.00	45.00
18 to 24 ins., Br.	1.25	10.00	....
2 to 3 ft., Br.	2.00	15.00	....
Euonymus Americanus. Brook Euonymus.			
12 to 18 ins., liners	.30	2.50	20.00
18 to 24 ins., liners	.35	3.00	25.00
Forsythia Fortunei. Fortune Forsythia.			
6 to 12 ins., C.	.30	2.50	20.00
12 to 18 ins., C.	.35	3.00	25.00
18 to 24 ins., C.	.40	3.50	30.00
12 to 18 ins., Br.	.60	5.00	....
18 to 24 ins., Br.	1.25	10.00	....
2 to 3 ft., Br.	2.50	20.00	....
Forsythia Intermedia.			
12 to 18 ins., C.	.35	3.00	....
18 to 24 ins., C.	.40	3.50	....
Forsythia Ovata. Forsythia Spectabilis.			
6 to 12 ins., C.	.35	3.00	....
12 to 18 ins., C.	.40	3.50	....
18 to 24 ins., C.	.50	4.50	....
Forsythia Viridissima. Greenstem Forsythia.			
12 to 18 ins., C.	.35	3.00	....
12 to 18 ins., Br.	.60	5.00	....
18 to 24 ins., Br.	1.25	10.00	....
2 to 3 ft., Br.	2.50	20.00	....
Hydrangea Arborescens. Smooth Hydrangea.			
6 to 12 ins., S.	.25	12.00	15.00
12 to 18 ins., S.	.35	3.00	25.00
18 to 24 ins., S.	.50	4.50	40.00
18 to 24 ins., Br.	1.50	12.00	....
2 to 3 ft., Br.	2.50	20.00	....
Hypericum Aureum (Hardy). Goldflower.			
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., S.	.40	3.50	30.00
12 to 18 ins., Br.	1.00	8.00	....
18 to 24 ins., Br.	1.50	12.00	....
Ligustrum Amurense. Amur River North Privet.			
Lining-out, 1-yr. C.	.30	2.50	20.00
6 to 12 ins., 2 br. up	.35	3.00	25.00
12 to 18 ins., 2 br. up	.50	4.50	40.00
18 to 24 ins., 2 br. up	.75	6.00	50.00
Ligustrum Ibolium. Ibolium Privet.			
Lining-out, 1-yr. C.	$0.25	$ 2.00	$15.00
6 to 12 ins., 2 br. up	.30	2.50	20.00
12 to 18 ins., 2 br. up	.40	3.50	30.00
18 to 24 ins., 2 br. up	.50	4.50	40.00
2 to 3 ft., 3 br. up	.75	6.00	....
Special grafting grade	.40	3.50	30.00
Ligustrum Obtusifolium. Ibota Privet.			
Lining-out, 1-yr. C.	.30	2.50	20.00
6 to 12 ins., 2 br. up	.40	3.50	30.00
12 to 18 ins., 2 br. up	.50	4.50	40.00
Ligustrum Ovalifolium. California Privet. Same grades and prices as Ibolium Privet.			
Ligustrum Sinense. Chinese or Amur River South Privet.			
4 to 6 ins., S.	...	.35	2.75
6 to 12 ins., S.	...	.75	5.00
12 to 18 ins., S.	...	1.00	7.00
18 to 24 ins., S.	...	1.25	9.00

1000 free with each order for 10,000 of the same grade of Ligustrum Sinense.

All privets are liberally graded as specified. None of the 3 and 4-cane plants are taken out, and you get them in with the 2-cane grades listed. Our lining-out plants are exceptionally good this season. Write for quantity prices on 10,000 or more.

Lonicera Fragrantissima. White Honeysuckle.			
6 to 12 ins., C.	.35	3.00	25.00
12 to 18 ins., C.	.40	3.50	30.00
12 to 18 ins., Br.	.75	6.00	....
18 to 24 ins., Br.	1.00	8.00	....
2 to 3 ft., Br.	1.50	12.00	....
Philadelphus Coronarius. Sweet Mock Orange.			
6 to 12 ins., C.	.45	3.50	30.00
12 to 18 ins., C.	.50	4.00	35.00
Rhus Copallina. Shining Sumac.			
Rhus Glabra. Smooth Sumac.			
Rhus Typhina. Staghorn Sumac.			
12 to 18 ins., S.	.20	1.50	12.00
18 to 24 ins., S.	.25	2.00	15.00
2 to 3 ft., S.	.30	2.50	20.00
3 to 4 ft., S.	.50	4.50	40.00
Robinia Hispida. Rose Acacia.			
12 to 18 ins., liners	.30	2.50	20.00
18 to 24 ins., liners	.35	3.00	25.00
2 to 3 ft., Br. tops	1.50	12.00	....
3 to 4 ft., Br. tops	3.50	30.00	....
Spiraea Callosa Rosea. Pink Fortune Spiraea.			
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., S.	.35	3.00	25.00
18 to 24 ins., Br.	.75	6.00	....
2 to 3 ft., Br.	1.25	10.00	....
Spiraea Reevesiana. Reeves Spiraea (Single).			
6 to 12 ins., C.	.35	3.00	....
12 to 18 ins., C.	.45	4.00	....
12 to 18 ins., Br.	.75	6.00	....
Spiraea Vanhouttei. Van Houtte Spiraea.			
Lining-out, 1-yr. C.	.35	3.00	25.00
12 to 18 ins., 1-yr. C.	.45	4.00	35.00
9 to 12 ins., Br., hedging	.45	4.00	35.00
12 to 18 ins., Br., hedging	.60	5.00	45.00
18 to 24 ins., Br., hedging	.90	7.00	60.00
Symphoricarpos Vulgaris. Coralberry.			
6 to 12 ins., C.	.25	2.00	15.00
12 to 18 ins., C.	.30	2.50	20.00
18 to 24 ins., C.	.35	3.00	25.00
12 to 18 ins., Br.	.40	3.50	30.00
18 to 24 ins., Br.	.50	4.50	40.00
2 to 3 ft., Br.	.75	6.00	50.00

1000 plants free with each 10,000 ordered on the first three grades of Coralberry.

Weigela Rosea. Pink Weigela.			
6 to 12 ins., C.	.50	4.00	35.00
12 to 18 ins., C.	.60	5.00	45.00
Weigela Lutea. Yellow Weigela.			
6 to 12 ins., C.	.75	6.00	....
12 to 18 ins., C.	1.00	8.00	....
Weigela Nana Variegata. Variegated Weigela.			
6 to 12 ins., C.	.75	6.00	....

EVERGREENS

	Per 10	Per 100	Per 1000
Abelia Grandiflora. Glossy Abelia.			
Lining-out, 1-yr. C.	$0.60	$ 5.00	$40.00
6 to 9 ins., C.	1.00	7.50	60.00
9 to 12 ins., C.	1.25	10.00	80.00
12 to 18 ins., Br.	2.00	15.00	....
Ilex Opaca. American Holly.			
4 to 6 ins., S.	.50	4.00	35.00
6 to 9 ins., S.	.75	6.00	50.00
9 to 12 ins., S.	1.00	8.00	70.00
6 to 9 ins., Tr.	1.25	10.00	....
9 to 12 ins., Tr.	1.50	12.00	....
12 to 18 ins., Tr.	2.50	20.00	....
Juniperus Virginiana. Red Cedar.			
6 to 9 ins., S.	.30	2.50	20.00
9 to 12 ins., S.	.40	3.50	30.00
12 to 18 ins., S.	.60	5.00	40.00
Grafting grade, S.	.75	6.00	50.00
6 to 9 ins., Tr.	.75	6.00	50.00
Grafting grade, Tr.	1.00	9.00	75.00
Tsuga Canadensis. Hemlock.			
4 to 6 ins., Tr.	.80	7.50	60.00
6 to 9 ins., Tr.	1.00	9.00	75.00
9 to 12 ins., Tr.	1.50	12.00	....
12 to 18 ins., Tr.	2.50	20.00	....

IN CONNECTION with the above nursery-grown stock, we offer you the following native collected plants, graded to our usual high standard of grading.

Azalea Calendulacea. Flame Azalea.			
Azalea Nudiflora. Pinxterbloom Azalea.			
6 to 12 ins., liners	.90	7.50	60.00
12 to 18 ins., liners	1.25	10.00	80.00
12 to 18 ins., br. with buds	2.50	20.00	150.00
18 to 24 ins., br. with buds	4.00	35.00	300.00
2 to 3 ft., br. with buds	6.00	50.00	450.00

We also offer selected clumps with plenty of buds dug B&B at the following prices:

12 to 18 ins.	9.00	75.00	....
18 to 24 ins.	12.50	100.00	....
2 to 3 ft.	15.00	125.00	....
3 to 4 ft., heavy	25.00	200.00	....

20 per cent extra for boxing and packing. No charge for bulk car or truckloads.

NATIVE EVERGREENS (Collected)

	Per 10	Per 100	Per 1000
Ilex Opaca. American Holly.			
3 to 4 ins., S.	$0.30	$ 2.50	$20.00
6 to 9 ins., S.	.40	3.50	30.00
9 to 12 ins., S.	.65	5.00	40.00
12 to 18 ins., S.	1.25	10.00	....
18 to 24 ins., S.	2.00	15.00	....
Juniperus Virginiana. Red Cedar.			
3 to 6 ins., S.	...	1.25	10.00
6 to 9 ins., S.	...	2.00	15.00
9 to 12 ins., S.	...	2.50	20.00
12 to 18 ins., S.	.40	3.50	30.00
18 to 24 ins., S., heavy	1.25	10.00	....
Special grafting size	.65	5.00	40.00
Kalmia Latifolia. Mountain Laurel.			
3 to 6 ins., S.	.30	2.50	20.00
6 to 9 ins., S.	.40	3.50	30.00
9 to 12 ins., S.	.60	5.00	40.00
12 to 18 ins., S.	1.00	8.00	60.00
Pinus Echinata. Shortleaf Pine.			
Pinus Virginiana. Scrub Pine.			
9 to 12 ins., S.	.25	2.00	15.00
12 to 18 ins., S.	.40	3.00	25.00
18 to 24 ins., S.	.65	5.00	40.00
Rhododendron Maximum. Rosebay Rhododendron.			
3 to 6 ins., S.	.35	3.00	25.00
6 to 9 ins., S.	.65	5.00	40.00
9 to 12 ins., S.	1.00	8.00	60.00
12 to 18 ins., S.	1.25	10.00	....
18 to 24 ins., S.	2.00	15.00	....
Tsuga Canadensis. Hemlock.			
3 to 6 ins., S.	.20	1.50	12.00
6 to 9 ins., S.	.30	2.50	20.00
9 to 12 ins., S.	.45	3.50	30.00
12 to 18 ins., S.	.65	5.00	40.00
18 to 24 ins., S.	1.00	8.00	60.00

employees of an employer engaged in the first processing of any agricultural or horticultural commodity.

Under the new definition, exemptions may apply to workers employed in an establishment which (a) is located in the open country or in a rural community, and which (b) during the preceding calendar month received ninety-five per cent of its commodities from normal rural sources of supply located not more than certain specified air-line distances (differing according to products worked on) from the establishment.

As used in the definition, the term "open country or rural community" does not include any city, town, or urban place of 2,500 or greater population, or any area within one mile of the limits of a city or town of 2,500 to 50,000 population, three miles from a city of 50,000 to 500,000 population and five miles from cities of 500,000 or more.

The divisions will enforce the new regulations beginning March 1, 1947.

Commenting on the new definition, Mr. Walling pointed out that the "area of production" problem has been one of the most difficult in administration of the act.

He reiterated his recommendations that the Congress eliminate the "area of production" concept from the act, cancel the minimum wage and overtime exemptions contained in sections 7(c) and 13(a)(10) and provide for the overtime tolerances to meet the needs of the industries involved on a seasonal basis.

HELP VETERANS GET JOBS.

Members of the New England Nurserymen's Association have received a letter of commendation for their efforts in helping veterans find work. Writing to Homer K. Dodge, who recently represented the group, Art King, director of the "Job Center of the Air" program on WEEI, Boston, said the second appearance of members of the New England Nurserymen's Association on his program "proved most instructive to our New England veterans. You, Mr. Myrick and Mr. Vanderbrook conducted yourselves like real old veterans at the microphone and I am sure that what you had to say offered beneficial assistance to veterans interested in nursery work. I thank you sincerely for taking time out, especially on a Sunday morning, to offer your advice and suggestions to these men. I am certain that they benefited much from your sage experience."

Those who took part on the recent radio round-table discussion were Homer K. Dodge, of the Landscape Service Co., Framingham, Mass.; Louis C. Vanderbrook, of C. L. Vanderbrook & Son, Manchester, Conn., and Sterling Myrick, of Littlefield-Wyman Nurseries, Abington, Mass. All members of the association were contacted in regard to their need for help, and twenty-five specific jobs were offered on the program.

The participants pointed out that the winter months are a good time for veterans to make applications for nursery work, because employers have more time to interview them now and can plan to give them whatever training is necessary before the busy spring planting season begins.

Last March three other members of the association took part on the "Job Center of the Air" program and succeeded in placing 125 veterans in nursery work. No charge is made to either the veteran or the employer for this service. The program is broadcast from Boston every Sunday morning at 10:30 to 11 and on weekdays from 5:55 to 6 p. m. The nurserymen plan further cooperation with Art King as the spring planting season approaches.

Officers of the New England Nurserymen's Association at the present time are Peter Cascio, of the Peter Cascio Nurseries, West Hartford, Conn., president; Milford Lawrence, of the Cape Cod Nurseries, Falmouth, Mass., vice-president; Frederick S. Baker, of the North-Eastern Forestry Co., Cheshire, Conn., treasurer, and Louis C. Vanderbrook, of C. L. Vanderbrook & Son, Manchester, Conn., secretary.

SURPLUS ITEMS

Available for Immediate or Later Shipment

		Per 100
1000	**Dr. Campbell Black Walnut,** 2 to 3 ft.	**$ 75.00**
200	**Common White Birch,** 5 to 6 ft.	**75.00**
200	**Catalpa Bungei,** 5 to 6 ft.	**125.00**
500	**Concord Seedless Grapes,** 1-yr. No. 1	**40.00**
500	**Golden Muscat Grapes,** 1 yr. No. 1	**40.00**
3000	**Paul's Scarlet Climbing Rose,** No. 1	**50.00**
5000	**Red-leaved Barberry,** 12 to 15 ins.	**18.00**
1500	**Red Lake Currants**	**20.00**
2000	**Vitex Macrophylla**	**18.00**
2000	**Forsythia Fortunei**	**20.00**
1000	**Morrow's Honeysuckle**	**20.00**
500	**Laburnum Vossi,** 4 to 5 ft.	**1.25**
1000	**Jacotte Climbing Rose,** No. 1	**50.00**
1000	**Staechelin Climbing Rose,** No. 1	**50.00**
500	**Climbing American Beauty Rose,** No. 1	**50.00**

Send your want list on Chrysanthemums, Dahlias, Gladioli, Phlox, Ground Covers and Miscellaneous Perennials.

Above items are offered subject to prior sale, F.O.B. Newark, N. Y.

Boxing at extra cost. Quantities over 25 are offered at the 100 rate.

C. W. STUART & CO., INC.
Newark (Wayne County), New York

600 SURPLUS SHADE TREES

		Height	Price each
20	**American Elm**	10 to 12 ft.	**$2.00**
50	**Chinese Elm**	10 to 12 ft.	**2.00**
40	**Chinese Elm**	12 to 15 ft.	**3.00**
20	**Red Oak**	10 to 12 ft.	**2.00**
100	**Norway Maple**	6 to 8 ft.	**1.00**
50	**Russian Mulberry,** heavy	8 to 10 ft.	**2.50**
100	**Mountain Ash**	5 to 6 ft.	**.80**
50	**Hackberry**	10 to 12 ft.	**2.00**
40	**American Plum**	8 to 10 ft.	**2.00**
30	**Silver Poplar**	12 to 15 ft.	**3.00**
100	**White Birch**	5 to 6 ft.	**.80**

$900.00 for the lot.

ANDERSEN'S EVERGREEN NURSERIES
Scottville, Mich.

ASIATIC MAGNOLIAS

Large selection of varieties and sizes.
Available to nurserymen in near-by states.
Nothing less than 5 ft.
Truck, or tractor-trailer loads only.
Inspection invited; prices quoted according to size and quality at the nursery.

ROLANDHURST NURSERIES
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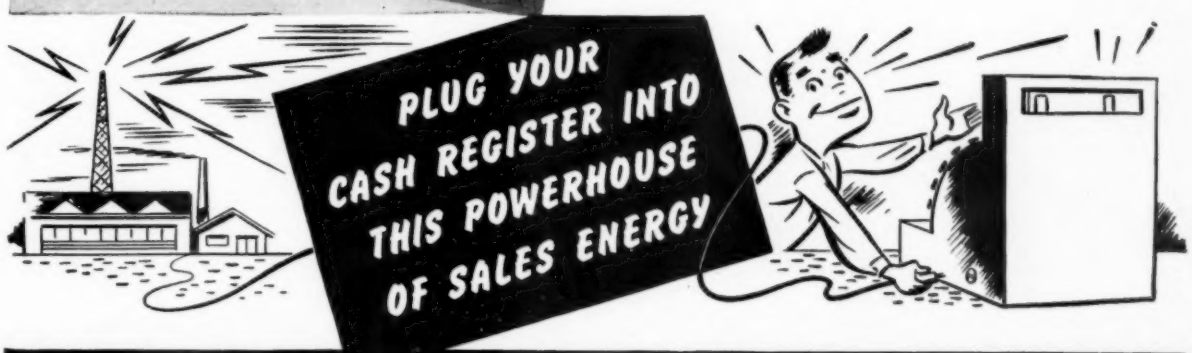

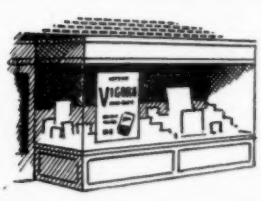

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Plant Notes Here and There

By C. W. Wood

During 1946, another year of no help and crowded schedules, one of the few plant experiments tried here in north Michigan was with ferns, hardy and tender (mostly the former). I should like to extract a few words now from the notes made during the trials, hoping that they may be of help to others and perhaps induce some growers who have never ventured beyond locally collected material to give them attention. First, a few notes on propagation.

Division is the simplest way and the one most often used when the needed increase is small. But that will not often answer the purpose of the commercial grower. He will want to grow his stocks from spores, and that method is open to anyone, even those with meager facilities. If one has his own parent stock, he will have to watch the fertile fronds and detach them just before the spores are ready to drop, putting them separately in bags or other containers until the spores fall.

Prepare pans of finely sifted soil which has been sterilized and sow the spores on the surface without covering them. Cover each pan with a pane of glass or, preferably, set the pan in a close propagating case in a temperature of 65 degrees until germination, after which air and more air should be given. If the soil was thoroughly soaked before planting, no more moisture will often be needed until the new plants are up, but even then watering should be done from the bottom. It will be advisable to prick out the little plants just as soon as they can be handled, even if necessary to get several of them in a clump, transplanting again singly when they have attained the first true leaf.

It is not my intention at this time to go into the matter of kinds to any extent, but I should like to comment briefly on a few of the seldom-seen ones which are available in this country, at least in plants.

The Japanese species which we formerly called Asplenium goeringianum but are now told to call Athyrium georingianum (not A. goergianum as usually seen in lists) is pretty enough in itself, though it cannot compare in attractiveness with its variety pictum. In addition to the finely toothed fronds of the type, pictum, as the name implies, is a lovely thing in its pinkish-purple, gray and light green color. This is a most attractive landscape fern, especially for planting in groups in the shady rock garden, using a leafy soil for its home.

There are so many good aspleniums that one could fill an entire issue with their praises, but I shall confine these remarks to two or three of the rarer kinds. And the very dwarf A. ruta-muraria is a good place to commence. As it grew here in northern Michigan it did not exceed two inches in height, though the delicate two to three-pinnate fronds were slightly longer than that in some cases. It is not easy to handle, though not so difficult as some of the literature would lead one to believe. I suspect that some of the trouble reported by gardeners can be traced to the conflicting statements in the books as to its needs. And it may be that the material found in Europe has selected different environments than that of this country. In any event, I find that material available in the United States, ostensibly from plants native to the eastern states, does well in part shade if given a very limy soil (the floras say it delights in squatting down in a crevice of a limestone) and a little water in dry weather. Its common name is rue spleenwort.

There is another little spleenwort, A. viride, that should interest all lovers of delicate plants—delicate of constitution and delicate in appearance. As it grew here, it got about three inches tall with lovely green fronds "simply pinnate into ovate, deeply crenate pinnae," as the botanists say. Its culture is the same as the next preceding.

The American parsley fern, Cryptogramma crispa acrostichnoides, is

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Radiance, Red	Radiance, White	Roslyn
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Cutting wood needed for the following quantities of cuttings:

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5000	**Forsythia Inter. Spectabilis**
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50,000	**Hydrangea A.G.**
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2000	**Lonicera Morrowi**
10,000	**Lonicera Tat. Rosea**
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4000	**Philadelphus Lemoine**
26,000	**Philadelphus Virginalis**
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Please quote on 10 to 12-in. or 12 to 15-in. light grade:

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25,000	**Hydrangea A.G.**
5000	**Lonicera Morrowi**
5000	**Lonicera Tat. Rosea**
10,000	**Lonicera Tat. Rubra**
5000	**Lonicera Zabeli**
5000	**Spiraea Prunifolia**
2000	**Spiraea Anthony Waterer**
8000	**Viburnum Dentatum**
5000	**Acer Dasycarpum**, 2 to 3 ft.
2000	**Acer Platanoides**, 6-ft. Whips
5000	**Acer Saccharum**, 6-ft. Whips
1000	**Betula Alba**, 3 to 4 ft.
2000	**Catalpa Speciosa**, 2 to 3 ft.
1000	**Russian Mulberry**, 2 to 3 ft.

EVERGREEN LINERS

5000	**Picea Pungens Glauca**, 6 to 9 ins.
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3500	**Pinus Montana Mughus**, 4 to 6 ins.
2000	**Juniper Pfitzeriana**, 6 to 9 ins.
1000	**Juniper Sabina**, 6 to 9 ins.
1500	**Juniper Excelsa Stricta**, 6 to 9 ins.
1500	**Juniper Com. Hibernica**, 9 to 12 ins.
1000	**Taxus Hicksi**, 4 to 6 ins.
1000	**Taxus Cuspidata**, 4 to 6 ins.
2000	**Thuja Globosa**, 6 to 9 ins.
1500	**Thuja Pyramidalis**, 9 to 12 ins.
1000	**Tsuga Canadensis**, 9 to 12 ins.

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100,000	4 to 6 mm. **Multiflora Jap.**, thornless cuttings	**$25.00**
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one of two rock brakes that should be in every collection of small ferns. Perhaps I should say in all collections where their need for cool conditions can be met, for they are both boreal or alpine plants that would no doubt resent a hot climate. The one referred to is aptly named, for the congested fronds, on straw-colored stalks, are exactly like a curled parsley of the vegetable garden. Other than a cool situation, its needs are easily met. I find it along northern Lake Huron in quite sterile soil in full sun, but I suspect it would want some sun in warmer sections. The other little rock brake that I had in mind is C. stelleri, a species that has caused some consternation in gardens and not a few conflicting statements in the literature. The latter has given rise to the opinion that the plant cannot be grown much south of its range, which covers northern North America. As a matter of fact, it is easy if given quite dense shade in a well drained soil, thoroughly impregnated with lime. It would then do well, I imagine, far south of its range, though it would no doubt disappear in midsummer, not to put in another appearance until the following spring. No doubt the disappearing act is what has led gardeners to believe it incorrigible.

The little cliff brake, Pellaea densa, is another small northerner (I have not found it at all in Michigan, though it occurs in Ontario) that makes a pleasant covering for a shady spot. I found that it likes a well drained (perhaps a raised situation on heavy soils) situation in leafy soil. There it makes pleasing lacy clumps to a height of three inches.

The polypodiums are among my favorite small ferns and probably rate high with other gardeners. Not many need occupy our attention now, for the common kinds are well known and the rare ones are hard to come by. Polypodium pulcherrimum I had a few years ago from the northwest and now find available in trade channels. Although I am unable to verify the name in any flora at my command, it is quite appropriate, the 8-inch lacy fronds being among the loveliest of medium-size ferns of my acquaintance. It is easily satisfied in this section, settling down to enjoy life in a partly shaded spot in leafy soil, preferring one on the alkaline side, I believe.

Rock Garden after June.

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Aster Frikarti, 3-in. pots	$15.00
Lilium Speciosum Rubrum	65.00
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2-yr. Roots, 1-yr. Tops

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2 to 3 ft., 5/16 to 7/16-in.	$5.00	$40.00	$300.00
3 to 4 ft., 7/16 to 9/16-in.	5.50	45.00	350.00
4 to 5 ft., 9/16 to 11/16-in.	6.00	50.00	400.00

Varieties. Listed in ripening order.

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	Per 10	Per 100	Per 1000
11/16-inch and up, 4½ ft. and up	$6.50	$60.00	$550.00
9/16 to 11/16-inch, 4 ft. and up	5.50	50.00	450.00
7/16 to 9/16-inch, 3 ft. and up	4.00	35.00	300.00
5/16 to 7/16-inch; 2 ft. and up	2.90	25.00	220.00

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Delicious, Dark Red
Delicious, Yellow
Early Harvest
Grimes Golden
Haralson
Jonathan
Jonathan, Dark Red
Lodi
Maiden Blush
McIntosh, Dark Red
Red June
Rome Beauty, Red
Stayman
Transcendent
Turley
Wealthy
Winesap
Yellow Transparent

PEAR SEEDLINGS

	Per 100	Per 1000
¼-inch and up, branched	$3.70	$32.00
No. 1, 3/16 to ¼-inch, branched	3.20	28.00
No. 2, 2/16 to 3/16-inch, branched	2.40	20.00
No. 3, about 2/16-inch	1.70	14.00

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	Per 100	Per 1000
AMPELOPSIS VEITCHI (Boston Ivy) 1-year seedlings	$ 6.00	$50.00
BUDDLEIA CHARMING Transplants from soil flats	7.00	65.00
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CLEMATIS PANICULATA 1-inch pots	5.00	45.00
CYDONIA JAPONICA (Cutting-grown) 6 to 12 inches, Tr.	6.50	60.00
ELAEAGNUS ANGUSTIFOLIA (Russian Olive) 18 to 24 inches, S.	5.00	45.00
12 to 18 inches, S.	3.50	30.00
6 to 12 inches, S.	2.50	20.00
JUNIPERUS VIRGINIANA (Red Cedar) 3 to 6 inches, S.	6.00	50.00
LIGUSTRUM AMURENSE (Amur Privet) 8 to 15 inches, field-grown	4.00	35.00
Rooted cuttings from soil beds	2.50	15.00
LIGUSTRUM IBOLIUM Rooted cuttings	4.00	30.00
LIGUSTRUM O. REGELIANUM (Regel Privet) Rooted cuttings	5.00	40.00
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PYRACANTHA COCCINEA Vincent's hardy strain, 2-inch pots	20.00	180.00
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6 to 12 inches, S.	1.25	10.00
SPIRAEA VANHOUTTEI 12 to 18 inches, 1-year	8.50	75.00
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TAMARIX AFRICANA 18 to 24 inches, Tr.	7.00	....
12 to 18 inches, Tr.	5.00	....
TAMARIX HISPIDA 6 to 12 inches, Tr.	6.00	....
THUJA ORIENTALIS (Chinese Arborvitae) 3 to 6 inches, S.	4.00	30.00
ULMUS PUMILA (Chinese Elm) 2 to 3 feet, S.	3.00	25.00
18 to 24 inches, S.	2.50	20.00
12 to 18 inches, S.	1.75	15.00
6 to 12 inches, S.	1.25	10.00

PERENNIALS

	Per 10	Per 100
ALTHAEA ROSEA (Hollyhock) Single, mixed colors	$0.85	$ 7.00
DICENTRA SPECTABILIS (Bleeding Heart) 5 to 8 eyes, clumps	6.00	55.00
3 to 5 eyes	5.00	45.00
FUNKIA (Plantain Lily) Lancifolia	1.40	12.00
HIBISCUS (Giant Mallow) **Bv color.** Pink, Red, White	1.40	12.00
Mixed colors	1.10	9.00
IRIS, SIBIRICA Rich dark blue	1.20	10.00
LILY-OF-THE-VALLEY Strong pips ($25.00 per 1000)	.35	3.00
LYTHRUM ROSEUM SUPERBUM **Rose Loosestrife**	1.40	12.00
PENSTEMON (Beard Tongue) **Garnet**	2.40	20.00
PHLOX PANICULATA (Hardy Garden Phlox) **Bright Eve.** Scarlet, red eye	1.70	15.00
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Charles Curtis. Large, sunset-red	2.00	18.00
Chieftain. Ruby-red	2.00	18.00
Daily Sketch. Pink, crimson eye	1.70	15.00
Frau Dr. Klemm. Lavender	1.70	15.00
E. I. Farrington. Salmon pink	1.70	15.00
Eva Forrester. Clear pink	2.00	18.00
Hauptmann Kohl. Glowing red	1.70	15.00
Leo Schlageter. Scarlet	1.70	15.00
Lillian. Pure pink	2.00	18.00
Mary Louise. Pure white	1.70	15.00
Prime Minister. White, violet eye	1.70	15.00
Royal Purple. Rich purple	1.70	15.00
Salmon Glow. Rich salmon	1.70	15.00
Starlight. Violet, white center	2.00	18.00
Wm. Kesselring. Plum-purple	1.70	15.00
SEDUM (Stonecrop) **Sieboldi.** 2-inch pots	1.60	14.00
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VIOLA ODORATA (Sweet Violet) **Russian Single**	1.20	10.00

APPLE SEEDLINGS

	Per 100	Per 1000
¼-inch and up, branched	$3.50	$30.00
¼-inch and up, straight	3.20	28.00
No. 1, 3/16 to ¼-inch, branched	2.90	25.00
No. 1, 3/16 to ¼-inch, straight	2.90	25.00
No. 2, 2/16 to 3/16-inch, branched	2.10	18.00
No. 2, 2/16 to 3/16-inch, straight	2.10	18.00
No. 3, about 2/16-inch	1.40	12.00

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Piece-root, tape wrapped	$4.00	$30.00
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Send for list of varieties available. Any special varieties will be grafted if customer furnishes the scions. When customer furnishes good workable scions, the price will be $5.00 per 1000 less.

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LIGUSTRUM AMURENSE (Amur Privet)	$0.75	$5.00
POPULUS ITALICA (Lombardy Poplar)	.75	5.00
TAMARIX AFRICANA	.75	5.00

HARDY CHRYSANTHEMUMS

	Per 10	Per 100
NEW ENGLISH VARIETIES	$2.10	$18.00
Alabaster. Early white, very large, August.		
Bronze Buttercup. Rich deep bronze, August.		
Crimson Buttercup. Petals red and bronze, August.		
George McLeod. Good yellow, September.		
Hillcrest Yellow. Bright yellow, August.		
Jean Harlow. Bright golden-yellow, August.		
Memnon. Crimson-scarlet, large, September.		
STANDARD VARIETIES	1.80	15.00
Algonquin. Fine brilliant yellow, September.		
Autumn Glow. Deep reddish-pink.		
Ceres. Yellow Korean.		
Chief. Red with yellow reverse.		
Clara Curtis. Showy single pink.		
Commander. Red, yellow center, good.		
Daphne. Pink Korean.		
Dean Kay Yellow. Orange-yellow.		
Dean Ladd. Bronze, very showy.		
Deluxe Red. Excellent red.		
Early Bronze. Bronze, blooms profusely.		
Eugene Wander. Very fine yellow.		
Eureka Giant. Orange-bronze, large.		
Indian. Coppery-red.		
Louise Schling. Red Korean, very good.		
Red Flare. Glowing red.		
Red Velvet. Rich velvety-crimson.		
Rodell Yellow. Double yellow, blooms freely.		
CUSHION VARIETIES		
Bronze Cushion	1.80	15.00
Pink Cushion	1.40	12.00
Yellow Cushion	1.80	15.00
White Cushion	1.80	15.00

HARDY ASTERS

	Per 10	Per 100
Blue Gem. Large double, blue, best	$1.40	$12.00
Lilac Time. Violet-blue, dwarf	1.40	12.00
Sam Banham. White	1.40	12.00
Violetta. Compact, semi-dwarf, blue	1.40	12.00

VINES

	Per 10	Per 100
AMPELOPSIS TRICUSPIDATA (Boston Ivy) 2-year, No. 1, 18 to 24 inches	$3.50	$30.00
2-year, Med. 12 to 18 inches	2.90	25.00
CLEMATIS PANICULATA 2-year, No. 1	4.00	35.00
2-year, Medium	2.90	25.00
LONICERA JAPONICA HALLIANA 2-year, No. 1	1.80	15.00
2-year, Medium	1.40	12.00

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American-grown. Immediate delivery. Sizes given are circumferences.

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Centifolium. Immense white trumpets, tall stems. 6 to 7 inches	$2.50	$20.00
5 to 6 inches	2.00	16.00
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Regale (Regal Lily). Large white trumpets, suffused with pink; fragrant. 4 to 5 inches	1.00	8.00

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	Per 10	Per 100
EARLY HARVEST. Root-cutting plants		
No. 1	$5.00	45.00
No. 2	3.50	30.00

RHUBARB

	Per 100	Per 1000
MacDonald. strong divisions	$25.00	$200.00
Victoria. whole roots 2 inches and up	10.00	90.00
1½ to 2 inches	8.50	75.00
1 to 1½ inches	6.00	50.00
5/8 to 1 inch	4.50	40.00

ASPARAGUS

	Per 100	Per 1000
Paradise. 2-year	$2.40	$20.00
Paradise. 1-year	1.90	16.00
Washington. 2-year	2.00	18.00
Washington. 1-year	1.40	12.00

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gather enough material to make a showing after that time. If one is to make his rock garden a pleasure throughout the open year, or if the commercial interests of the country are to help bring rock gardening back to the popularity it enjoyed a few years ago, it is necessary that we search out the later bloomers and bring them to the attention of gardeners. It is the purpose of these notes to point out a few of the better known plants, all obtainable in this country.

The first one that comes to mind is the little yellow fumitory, Corydalis lutea, a plant of many charms besides its ability to shower us with its yellow blessing from May until hard frost puts a damper on its merry spirit. It matters not to the nurseryman or the purchaser that the plant may, and probably will, bloom itself to death in a year or two, for it is quite sure to leave plenty of children behind to carry on its mission of producing beauty. If you sell plants locally, it will probably pay you to pot up a supply before hot weather comes on, to meet the demand after it is safe to dig them from nursery rows.

Two violets, the good modern strains of Viola cornuta and pert little Johnny-jump-ups, force themselves forward for our attention. It is not necessary to go into details regarding the first of these, except to say that it will pay to stick to carefully bred strains, but the Johnnies deserve a little special attention. Because of their short lives, it has become the habit of commercial people to depend upon seedage. That is, of course, the way to mass-produce them, but it is not the way to perpetuate the better kinds which sometimes appear in one's plantings and the specially good ones which one sometimes finds in private gardens, some of which have been kept going by loving hands perhaps through two or three generations of gardeners. I never realized, until I became actively interested in collecting Johnnies several years ago, the cult which has formed around this attractive little plant. You might find it profitable to join the procession, commencing with seedlings, saving the best of them for vegetative reproduction and adding others as they present themselves. It might be well to add that a few slight shearings after the first flush of blooming is over will keep them in the flowering mood throughout the summer.

The usual treatment of poppies, including Iceland and the long list of more or less biennials that are distributed along the Mediterranean

[Continued on page 58.]

LINING-OUT STOCK

	100 rate, ea.		100 rate, ea.
Azalea mollis, 1 tr. beds, 2 to 5 ins.	$0.10	**Euonymus coloratus,** Tr., 4 to 8 ins.	$0.10
(1000 rate, 9c ea.)		**Euonymus fortunei,** Tr., 4 to 8 ins.	.12
Euonymus alatus, S., 4 to 8 ins.	.10	**Euonymus patens,** Tr., 3 to 6 ins.	.10
Euonymus carrierei, Tr., 4 to 8 ins.	.10	**Euonymus europaeus,** S., 6 to 12 ins.	.08
Euonymus carrierei, Tr., 8 to 12 ins.	.14		

Azalea Mollis Bed Transplants

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1800 **Pyramid Arborvitae,** 1 and 2-yr. pots.

4750 **Six shrub varieties,** still unsold, well established in 1-yr. pots.

FINISHED STOCK

Pyramid Arborvitae, 4 to 5 ft. and 5 to 5½ ft.

Globe Arborvitae, 15 to 18 ins. and 18 to 24 ins.

Dark Green Am. Arborvitae, 3 to 4 ft. and 4 to 5 ft.

Communis Junipers, 2½ to 5 ft.

Taxus, Grafted Junipers, Spruce, in variety and in desirable sizes.

Please write for prices on quantities you need.

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ORNAMENTAL EVERGREENS

Trees & Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

DO YOU HAVE OUR NEW CATALOG?

It contains a full list of annual and perennial flower seeds, hardy Chrysanthemums, insecticides and fungicides, root-producing powders and other supplies.

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SMALL FRUIT PLANTS AND VEGETABLE ROOTS
HARDY NORTHERN-GROWN NURSERY STOCK

Grown exclusively for the wholesale trade.

All stock ready for immediate shipment. Place your order now for shipment whenever you desire. We can make shipment at any time from stock held in our modern storage.

GRAPEVINES

	25 to 100 Each	100 to 250 Each	250 and up Each
Concord (Blue), 2-1	$0.10	$0.09	$0.08½
Concord (Blue), 1-1	.08	.07	.06½
Fredonia (Early Black), **Niagara** (White), **Catawba** (Red), 2-1	.12	.11	.10½
1-1	.09	.08	.07½
Delaware (Red), 2-1	.14	.13	.12½
Delaware (Red), 1-1	.11	.10	.09½
Caco (Red), 2-1	.16	.15	.14½
Caco (Red), 1-1	.12	.11	.10½

CURRANTS

	25 to 100 Each	100 to 250 Each
Wilder, heavy, 3-yr.	$0.20	$0.19
Wilder, 2-1	.15	.14
Wilder, 1-1	.11	.10

BLACK RASPBERRIES

	No. 1 Tips Per 100	No. 1 Tips Per 1000
Cumberland and **Logan**	$4.50	$35.00
Morrison	6.00	50.00

Ask for prices on quantity lots.

PURPLE RASPBERRIES

	No. 1 Tips Per 100	No. 1 Tips Per 1000
Sodus and **Potomac**	$ 6.00	$50.00
No. 1 Transplants	10.00	....

RED RASPBERRIES

	1-yr., No. 1 3/16 to ¼ in. Per 100	1-yr., No. 1 3/16 to ¼ in. Per 1000	1-yr. Medium ⅛ to 3/16-in. Per 100	1-yr. Medium ⅛ to 3/16-in. Per 1000
Latham	$6.00	$50.00	$4.00	$30.00
Indian Summer	6.50	55.00	....	....
Chief	5.50	45.00	3.75	27.50
St. Regis	5.00	40.00	3.50	25.00

All transplants of above **$10.00** higher in price.

BLACKBERRIES

	Per 100	Per 1000
Eldorado and **Alfred**		
No. 1 Transplants	$5.50	$45.00
1-yr., No. 1 R.C.	4.50	35.00
1-yr., Medium	3.00	20.00

LUCRETIA DEWBERRY

	Per 100	Per 1000
No. 1 Tips	$4.50	$35.00

BOYSENBERRY

	No. 1 Tips Per 100	No. 1 Tips Per 1000
Common and **Thornless**	$6.50	$55.00

BLUEBERRIES

Rubel, Rancocas, Jersey, Adams, Cabot, Concord.

	Each
1-yr., 3 to 6 ins.	$0.25
2-yr., 6 to 12 ins.	.50
3-yr., 12 to 18 ins.	.70
4-yr., 18 to 24 ins.	1.00

VEGETABLE ROOTS

VICTORIA RHUBARB

Whole Roots

	100 to 250 Per 100	250 to 1000 Per 100	1000 to 5000 Per 1000
1½-in. and up	$10.00	$9.50	$90.00
1 to 1½-in.	6.00	5.50	50.00
¾ to 1-in.	5.00	4.50	40.00
½ to ¾-in.	4.00	3.50	30.00

Ask for prices on quantity.

RED RHUBARB DIVISIONS

	Each
Canada Red	$0.40
MacDonald	.30

ASPARAGUS

	25 to 100 Per 100	100 to 250 Per 100	250 to 1000 Per 1000
Paradise and **Washington**			
3-yr., heavy	$4.00	$3.50	$30.00
2-yr.	2.80	2.30	18.00
1-yr.	2.20	1.70	12.00

HORSE-RADISH

	25 to 100 Each	100 to 250 Per 100	250 to 1000 Per 1000
Cuttings	$0.02	$1.75	$15.00
Whole Roots	.04½	4.00	35.00

Wire or telephone **BRIDGMAN 22**

ASK FOR SPECIAL QUOTATIONS ON QUANTITY

All prices F.O.B. Bridgman, Mich.; boxing at cost. 250 at 1000 rate, unless otherwise specified. In all correspondence use business letterhead. All prices subject to immediate acceptance.

TERMS: 5 per cent discount for cash with order. 2 per cent discount for payment upon receipt of stock to parties with established credit; or 10 days net. Orders amounting to less than **$5.00,** cash with order. C.O.D. orders must be accompanied with 1/3 cash deposit.

KRIEGER'S WHOLESALE NURSERY
Bridgman, Michigan

Coming Events

MEETING CALENDAR.

January 16 and 17, Oklahoma State Nurserymen's Association, Huckins hotel, Oklahoma City.

January 17 and 18, New York State Nurserymen's Association, Hotel Sheraton, Rochester.

January 17 and 18, Western New York Nurserymen's Association, Hotel Sheraton, Rochester.

January 18, Washington State Nurserymen's Association, Davenport hotel, Spokane.

January 21, Oregon Association of Nurserymen, Heathman hotel, Portland.

January 22, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 22, New Jersey Association of Nurserymen, War Memorial building, Trenton.

January 22, Ohio State University short course for nurserymen, Neil House, Columbus.

January 23 and 24, Ohio Nurserymen's Association, Neil House, Columbus.

January 29 and 30, Virginia Nurserymen's Association, John Marshall hotel, Richmond.

January 29 to 31, Michigan Association of Nurserymen, Pantlind hotel, Grand Rapids.

January 30 and 31, Pennsylvania Nurserymen's Association, Brunswick hotel, Lancaster.

February 4 to 6, New England Nurserymen's Association, Hotel Statler, Boston, Mass.

February 7, Eastern New York Nurserymen's Association, Hotel Pennsylvania, New York.

February 7, Long Island Nurserymen's Association, Hotel Pennsylvania, New York.

February 7, West Virginia Nurserymen's Association, Ruffner hotel, Charleston.

February 14 and 15, Midwestern Shade Tree Conference, Stevens hotel, Chicago, Ill.

OHIO REGIONAL SCHOOLS.

One-day regional schools for nurserymen, landscape gardeners and arborists are scheduled for February 4 at Cleveland and February 5 at Painesville by the staff of the department of horticulture at Ohio State University. Members of the trade in these sections will receive copies of the program from the county agent as soon as available.

MEETING AT NEW YORK.

Chapter delegates and members in the eastern region of the American Association of Nurserymen have received a call for a meeting February 8 at 9:30 a. m. at the Hotel Pennsylvania, New York city, from Russell Jacobus, chairman, and Peter J. van Melle, secretary, of region 1.

Besides discussing preparations for the convention of the A. A. N. next summer in region 1, a notable program is being arranged for this session.

On the preceding day will be held a meeting of the National Landscape Nurserymen's Association for members in the eastern region, as well as the annual meetings of the Long Island and Eastern New York nurserymen's associations.

MICHIGAN ANNIVERSARY.

Opening night festivities of the silver anniversary convention of the Michigan Association of Nurserymen, which will be held January 29 to 31 at the Pantlind hotel, Grand Rapids, will feature music and stunts at a get-together party.

President Clifford R. Emlong, Stevensville, Mich., will call the meeting to order Thursday morning, January 30. Following the address of welcome by Frank Whitwam, manager of the Grand Rapids convention bureau, Harold E. Hunziker will give the report of the secretary-treasurer.

James I. E. Ilgenfritz, Monroe, Mich., executive committee member of the American Association of Nurserymen, will give an address, "Looking Forward to the Next Twenty-five Years in the Nursery Business." Under the direction of F. L. O'Rourke, five Michigan State College students will present a symposium, "The Students' Report of the Nursery Training Course." Dr. H. B. Tukey, head of the department of horticulture at Michigan State College, East Lansing, will give an address, "Toward a Greater Use of Dwarf Fruit Trees."

Thursday afternoon, Dr. L. C. Chadwick, of the department of horticulture, Ohio State University, Columbus, will give an illustrated address on "New Varieties for Landscape Planters." Harry J. Kelley, manager of industrial relations for the American Seating Co., Grand Rapids, will talk on "Employer-Employee Relationships." Following the election of officers and executive committee members and the reports of committees, a colored film depicting nursery operations will be shown by the Weller Nurseries Co., Holland, Mich.

At the silver anniversary banquet Thursday evening, Earl Gotberg, of Detroit, will present the floor show, and George W. Welsh, mayor of Grand Rapids, will greet the group. Toasts are to be given by Richard H. Jones, Jones Ornamental Nursery, Nashville, Tenn., president of the American Association of Nurserymen; Fred R. Kilner, Chicago, Ill., editor of the American Nurseryman; C. A. Boyer, chief of the bureau of plant industry of the Michigan department of agriculture; G. S. McIntyre, of the state department of conservation; Dr. V. R. Gardner, director of the agricultural experiment station, East Lansing, and the following representatives of Michigan State College: Dr. Roy E. Marshall, of the department of horticulture; Ray-

COME!

Help us celebrate in Michigan this year!

It's our Silver Anniversary (1922-1947)

MICHIGAN ASSOCIATION OF NURSERYMEN

Pantlind Hotel, Grand Rapids

Wednesday evening, Jan. 29; all day Thursday, Jan. 30, and Friday morning, Jan. 31, 1947.

Extra-special Program and Banquet Celebration

A roomful of exhibits. Souvenirs and Favors.

A special occasion for Nurserymen. Be on hand at this Convention—this year, especially.

NOTE: Send advance hotel reservations to the PANTLIND HOTEL, GRAND RAPIDS, MICH.

CLOVERSET POTS

Pat. No. 2073695

● QUICK—EASY FOR NEW SERVE-YOURSELF PLANS

● HANDSOME DISPLAYS—ALL PLANTS OF EACH VARIETY IN SAME SIZE POTS

Will Boost Profits!

Nurserymen find that Plants in Cloverset Pots sell easily for much higher prices (although these low-price pots can be given away with plant). Your customers, too, will appreciate all the advantages of buying your plants in these modern, practical pots . . . from which the plants can be so easily removed without root damage.

(STANDARD HEAVY)

	No. 0	No. 1	No. 2	No. 3
Height	5½ ins.	6½ ins.	9½ ins.	9 ins.
Diam. Top	5 ins.	6 ins.	7 ins.	8 ins.
Bottom Diam.	4½ ins.	5½ ins.	6½ ins.	7½ ins.
Corresponding Clay Pot	6-in.	7-in.	8-in.	9-in.
Approx. Weight Per 100	35 lbs.	52 lbs.	78 lbs.	88 lbs.
Per 100	$ 2.75	$ 4.00	$ 4.50	$ 5.00
Per 1000	$25.00	$37.50	$42.50	$47.50

No. 0 No. 1 No. 2 No. 3

No. 0 for perennials and for greenhouse use;

No. 1 for perennials and mums;

No. 2 for roses and shrubs;

No. 3 for large shrubs and transplanting.

F.O.B. KANSAS CITY. TERMS: CASH WITH ORDER. EXCEPT ESTABLISHED ACCOUNTS. Prices Subject to Change Without Notice. Please send ¼ of amount on C.O.D. orders.

Unless otherwise instructed, we will determine method of shipment. If you designate express, we advise you to check the cost with your local Express Agent.

Cloverset Pots take 3rd class freight rate. All Cloverset Pots are packed 100 in carton, ready for use. We do not break cartons.

Orders for 300 pots or more take 1,000-pot price. Orders for less than 300 pots take 100-pot price.

No loss from breakage, with weight only 1/16 that of same capacity clay pot. Non-porous to cut watering in half. Your customer will find that a started and potted plant is seldom lost in a Cloverset pot with double soil capacity.

Write Us About Carload Discounts and Freight Savings.

CLOVERSET FLOWER FARM

ERNEST HAYSLER & SON

105th Street and Broadway, Kansas City 5, Mo.

mond Hutson, head of the department of entomology, and P. W. Robbins, of the department of forestry.

Friday morning Professor Hutson will discuss "An Around-the-year Nursery Spraying Program." Senator Ellwood Bonine, Vandalia, Mich., will give an address entitled "Our State Government Is Big Business." A round-table discussion, led by Dr. L. C. Chadwick, will consider questions submitted by nurserymen.

Arrangements have been made for wives and daughters of members attending the convention to visit furniture exhibits in the Fine Arts building.

OHIO PROGRAM.

The full program of the fortieth annual convention of the Ohio Nurserymen's Association, to be held January 23 and 24 at the Neil House, Columbus, contains a diversity of subjects and speakers.

The opening session, Thursday morning, January 23, will be devoted to association business, with President Roger Champion in the chair. Following the report of the secretary-treasurer, John D. Siebenthaler, will be heard the reports of chairmen of standing committees, as follows: Executive, Roger Champion; local, Bret Slemmons; legislative, C. O. Siebenthaler; Ohio State horticultural research, G. Walter Burwell.

In the afternoon a movie in color on the conservation of natural resources will be shown by the courtesy of the Truck-Tractor Equipment Co., Columbus. Ollie A. Hobs, Indiana nurseryman, will talk on his hobby, "Some Experiences with the Divining Rod." Louis Bromfield, of Malabar Farm, Lucas, O., noted author, will talk on "Relation of Soil to the Health of Man, Animals and Plants."

In the evening will be held the fifteenth annual "Ye Olde Time Dinner."

Following a meeting of the Ohio chapter of the American Association of Nurserymen, the Friday morning session will be devoted largely to reports of delegates to the national convention at Miami and to messages from the A. A. N. president, Richard H. Jones, Nashville, Tenn., and the new member of the A. A. N. executive committee, James Ilgenfritz, Monroe, Mich. Election of officers and election of delegates will follow.

In the afternoon, G. E. Lehker, associate professor of entomology at Purdue University, La Fayette, Ind., will give a chalk talk on phases of insect life. H. A. Lyon, of the De-

SURPLUS IN PEACH TREES

Budded on 1-year seedlings, 2-year roots. 1-year top from bud. These trees have been grown for our own retail trade. Grown in southern Pennsylvania, Adams county, best fruit soil.

We offer in the following varieties

Elberta, J. H. Hale, Cumberland, Raritan Rose (N. J. 97), Redhaven, Golden Jubilee, Triogem (N.J. 70), Greensboro, Sunhigh, Halehaven, Southhaven, Goldeneast (N.J. 87), Belle of Georgia, Summercrest (N.J. 94), Shippers Late Red, Gage Elberta, Brackett, Afterglow (N.J. 84), Libbie, Late Elberta.

Sizes

5 to 6 feet, 11/16-inch and up
4 to 5 feet, 9/16 to 11/16-inch
3 to 4 feet, 7/16 to 9/16-inch
2 to 3 feet, 5/16 to 7/16-inch

Write for prices for nuserymen and dealers, stating quantity wanted.

ADAMS COUNTY NURSERY & FRUIT FARMS
H. G. Baugher, Prop. **Aspers, Pa.**

AMERICAN ELM
Select Straight Seedlings

	Per 100	Per 1000
12 to 18 inches	$ 1.50	$12.00
18 to 24 inches	1.90	16.00
2 to 3 feet	2.70	22.00
3 to 4 feet	4.00	35.00
4 to 5 feet	6.00	55.00
5 to 6 feet	10.00	90.00

Write for Quantity Quotation.

TRANSPLANTED STOCK

	Per 100
AMERICAN ELM	
1 to 1½-inch	$135.00
1½ to 2-inch	175.00
2 to 2½-inch	275.00
2½ to 3-inch	400.00
CHINESE ELM	
1½ to 2-inch	175.00
2 to 2½-inch	275.00
HONEY LOCUST	
2 to 2½-inch	300.00

Good roots. Well formed tops.
SAMPLES ON REQUEST.

WALTER ELSNER LANDSCAPE CO.
10214 South Bell Ave. **Chicago 43, Ill.**

Evergreens
Barberry
Privet

Write for wholesale price list.

GARDNER'S NURSERIES
Rocky Hill, Conn.

KOSTER NURSERY
Division of Seabrook Farms

Wholesale Nurserymen

BRIDGETON, N. J.

Write for wholesale price list of lining-out and specimen stock in better evergreens and shrubs.

CAMELLIAS IN 2¼-inch POTS

Spring delivery. Ready to transplant in 4-inch pots or gallon cans.

Variety	Per 100
Covina—Red	$40.00
Pink Perfection—Pink	40.00
Chandleri Elegans—Cherry-red with white variegation	70.00
Prof. Sargent—Red	70.00
Colonel Firey—Fiery-red	75.00
Fanny Bolis—Red and white	70.00
Purity—White	45.00

FERNS, LARGE SIZE

Woodwardia Fern, Five-finger Fern, Deer's-tongue Fern, Wood Rustic Fern, Lace Fern, Maidenhair Fern, Sword Fern, Brake Fern.

$38.00 per 100

No orders for less than 25 of one variety, please.

STRELITZIAS

Birds-of-Paradise

Flowering-size Clumps.

$10.00 each $95.00 per 10 clumps

BEGONIA BULBS

(Tuberous)

California-grown

Prices—All varieties and colors

	Per 100	Per 1000
⅝ to ¾-inch diameter	$ 4.00	$ 30.00
¾ to 1-inch diameter	5.50	45.00
1 to 1½-inch diameter	7.50	65.00
1¼ to 1½-inch diameter	10.00	90.00
1½ to 2-inch diameter	14.00	130.00
2-inch and up	18.50	170.00

BLEEDING HEARTS

Dicentra Spectabilis, 3 to 5-eye Roots.

$40.00 per 100 $8.75 per 20

CACTI and SUCCULENTS

Standard Commercial Collection

20 varieties ready for 3-inch pots.

$4.50 per 100 $40.00 per 1000

De Luxe Novelty Collection

20 varieties ready for 3-inch pots.

$6.50 per 100 $60.00 per 1000

DAISIES

Field-grown Roots

	Per 100
Edgebrook Giant	$75.00
Esther Read	10.00
Marconi Daisy	10.00
Transvaal Daisy—Single, bright colors mix	14.00
Transvaal Daisy—Double hybrid mix	40.00

GLADIOLUS BULBS

***Algonquin**—New brilliant red.
***Aladdin**—Bright salmon, cream blotch.
Bagdad—Light red.
Beacon—Salmon-scarlet, cream throat.
Betty Nuthall—Glowing orange-pink.
Bonneville—Ruffled deep salmon-pink.
***Carioca**—Orange-scarlet.
Chas. Dickens—Purple-violet.
***Chamouny**—Light cherry-rose.
Commander Koehl—Deep red.
***Coral Glow**—Orange-coral.
***Corona**—White-edged rose.
Dream of Beauty—Rose-red.
Dr. F. E. Bennett—Fiery scarlet-red.
Early Peach—Novelty pink.
***Ethel Cave Cole**—Extra-large pink.
Golden Chimes—Large yellow.
Golden Cup—Early gold.
***Green Light**—Ruffled greenish-white.
Greta Garbo—Creamy-rose, yellow lip.
***Jeanie**—Rose-pink.
Kassel—Large new scarlet.
King Arthur—Commercial lavender.
King Lear—New ruffled purple.
La Fiesta—Tall, rich orange.
Leona—Rosy-red.
Maid of Orleans—Best creamy-white.
***Margaret Beaton**—White, scarlet throat.
Margaret Fulton—Deep salmon.
Minuet—Clear lavender.
***Myrna**—Ruffled creamy-white.
Paradise—Clear apricot.
Paul Pfitzer—Tall ,purple.
Peggy Lou—Deep pink.
Pelegrina—Deep blue-violet.
***Picardy**—Apricot-pink.
Polar Ice—Large white.
Red Phipps—Salmon-red.
Rewi Fallu—Immense deep blood-red.
Rosa Van Lima—Light pink.
Shirley Temple—Cream, blush-pink throat.
***Snow Princess**—Cream-white.
***Takina**—Immense rosaline purple.
Tip-Top—Large scarlet-red.
Token—Ruffled salmon-orange.
Virginia—Excellent scarlet.
Wurtembergia—Scarlet, cream throat.
Yellow Emperor—Fine yellow.
Select Florist Mix.

Price per 1000

No. 1	No. 2	No. 3	No. 4
$40.00	$34.00	$28.00	$22.00

* Varieties marked * are $10.00 more per 1000.

Prices on smaller bulbs sent on request.

AZALEAS

AZALEAS FOR GROWING ON
Spring Delivery

KURUME VARIETIES

F.O.B. East Coast

Coral Bells **Hinodegiri**
Hexe **Snow**
Hino **Orange Coral Bells**
Lorraine, Salmon Beauty, **Pink Pearl**

	Per 1000
Rooted Cuttings	$ 57.50
Transpalnts, strong, 3 to 5-branched plants	110.00
Transplants, heavy, 5 to 10-branched plants	140.00
Transplants, Triomphe, 2 to 3-branched plants	195.00

LARGER-SIZE KURUME VARIETIES

Same varieties as above

	Per 100
3 to 5 ins.	$25.00
4 to 6 ins.	35.00
6 to 8 ins.	57.50
8 to 10 ins.	85.00

PERICAT VARIETIES

Gardenia Supreme, Sweetheart Supreme, Mme. Pericat, Jersey Belle

	Per 100
Rooted Cuttings	$ 85.00
Transplants	195.00
3 to 5 ins.	30.00
4 to 6 ins.	50.00
6 to 8 ins.	75.00

COLUMBINE

Long-Spurred Giant Hybrids

Large field-grown clumps.

	Per 100
Giant Orange and Scarlet Shades.	$20.00
Chrysantha Snow Queen. White	20.00
Giant Crimson Shades. Hybrids	20.00
Giant Blue Shades. Hybrids	20.00
Giant Mixed Shades. Hybrids	20.00

DAHLIAS

Large-flowering, choice collections. Excellent for retail sales, eight varieties, 15 of each variety, $27.50 for collection. Each bulb labeled.

Pompon Collection: Six excellent varieties, 12 of each variety at $17.50 per entire collection. Each bulb is labeled.

DELPHINIUM CLUMPS

	Per 100
Top quality extra-large field-grown clumps. **Giant Pacific hybrid strain**	$20.00

VARIETIES AVAILABLE

Summer Sky—light blue
Bluebird—bright blue
Blue Jay—dark blue
Lancelot—lavender
Camelliard—lavender
King Arthur—dark violet
Round Table—mix
Guinevere—pink-lavender
Gallahad—clear white
Black Knight—dark violet

WRITE FOR OUR WHOLESALE CATALOG

NURSERYMEN'S EXCHANGE

938 Howard Street San Francisco, Calif.

troit Board of Commerce, will discuss present-day business, his topic being "Pattern for Prosperity."

VIRGINIA PROGRAM.

The complete program of the winter meeting of the Virginia Nurserymen's Association, to be held January 29 and 30 at the John Marshall hotel, Richmond, contains some changes and additions to the tentative program published in the preceding issue.

The first session, Wednesday afternoon, January 29, will be opened by the address of welcome by J. O. Williams and the address of President Bert Shoosmith. Then will appear an added headliner to the program, Prof. Joseph P. Porter, of Cornell University, who will talk on "Planting Small Properties." He will be followed by the state entomologist, G. T. French, who will discuss new and proposed regulations affecting Virginia nurserymen.

At the banquet in the evening the speaker will be Dr. Raymond B. Pinchbeck.

At the morning session January 30, "Our Labor Problems" will be discussed by C. H. Wees, of the Fruehauf Trailer Co.; "Legitimate Selling, Ethics in Selling, etc.," by William W. Bryan, sales manager, Standard Oil Co., and "Survival of the Fittest among Young Nursery Stock," by Albert Glass, Altavista, Va.

In the afternoon, S. B. Mecca will talk on "Controlling Wetwood and Correcting Nitrite Toxicity," and John J. Chisolm, College Park, Md., on "Advertising Through Photography." Professor Porter will speak on "Planting Large Properties." Howard Taylor, East View, N. Y., executive committee member of the American Association of Nurserymen, will report on the activities of the A. A. N.

NEW YORK PROGRAM.

An all-star roster of speakers and entertainers has been assembled for the annual winter meeting of the New York State Nurserymen's Association, to be held January 17 and 18 at the Sheraton hotel, Rochester. The mayor of Rochester, Samuel N. Dicker, will officially open the program with an address of welcome, to which Howard Taylor, president of the New York state association, will respond.

Richard H. Jones, Nashville, Tenn., president of the American Association of Nurserymen, will discuss current activities in the national association and their relation to the

ROSES

We offer subject to prior sale, 2-year, field-grown **ROSES** budded on **JAPONICA MULTIFLORA UNDERSTOCKS. IMMEDIATE SHIPMENT.** Our roses are liberally graded. Prices are delivered F.O.B. Springfield, Mo.

Less than 100 lots No. 1, **55c**; No. 1½, **45c**; No. 2, **35c.**
100 lots and over No. 1, **50c**; No. 1½, **40c**; No. 2, **30c.**

TERMS—Cash with order; no packing charges. Will accept 50 per cent cash with order, balance C.O.D., plus packing charges. **NOTE**—Please order in multiples of ten; we do not break bundles.

We have in some varieties some No. 3 grade suitable for lining-out and growing on. Send for list and prices if interested. These are liberally graded.

PLEASE ORDER GRADES AS LISTED BELOW.

Ami Quinard, Nos. 1½ and 2 only
Antoine Rivoire, all grades
Betty Grace Clark, all grades
Caledonia, Nos. 1½ and 2 only
Columbia, No. 1½ and 2 only
Etoile de Hollande, Nos. 1½ and 2 only
Editor McFarland, Nos. 1½ and 2 only
Else Poulsen, No. 2 only
Gruss an Teplitz, all grades
J. L. Mock, all grades
Luxembourg, Nos. 1½ and 2 only
Pink Radiance, all grades
Pres. Hoover, Nos. 1½ and 2 only
Red Radiance, all grades
Senior, all grades
Syracuse, all grades
Talisman YELLOW, all grades

CLIMBERS

Cl. Columbia, Nos. 1½ and 2 only **Cl. Mrs. P. S. duPont,** Nos. 1½ and 2 only

GROWN RIGHT—GRADED RIGHT—PACKED RIGHT

OZARKS PLANT FARMS, INC. Springfield, Missouri.

We offer the following for immediate delivery

APPLE

	Per 100
2-yr., 11/16-in.	$50.00
2-yr., 9/16-in.	40.00
1-yr., 4 to 5 ft.	30.00
1-yr., 3 to 4 ft.	25.00
In Leading Varieties	
5-N-1, 11/16-in.	125.00
5-N-1, 9/16-in.	100.00

PEACH, June-bud

9/16-in.	50.00
7/16-in.	40.00
5/16-in.	30.00
18 to 24 ins.	20.00
12 to 18 ins.	15.00
6 to 12 ins.	10.00

We also have a good supply of **Ornamentals** in liners and finished stock. Write for our new wholesale price list.

COUCH BROS. NURSERY CO.
McMinnville, Tenn.

POLYGONUM AUBERTI
(Silver-lace Vine)
No. 1, Field-grown.
$30.00 per 100,
$250.00 per 1000.

JAMES I. GEORGE & SON
Growers
Fairport, N. Y.

LANDSCAPE MATERIAL

in best assortment — **Japanese Red Maples, Taxus, Magnolias, Evergreens, Flowering Shrubs, Privet, etc.**

No Boxing. Write for list.

DEERFIELD NURSERIES
Deerfield Street P.O., N. J.

ASPARAGUS, RHUBARB, GRAPES, PRIVET and CANNAS

Place your order now for shipment when desired. Our Cannas, dug in late fall, will be ready for shipment any time after February 1 until the end of the spring planting season. Other items offered can be shipped promptly, or as desired, from now until the end of the spring shipping season.

RHUBARB ROOTS

VARIETIES: VICTORIA, MYATT'S LINNAEUS

	25	100	250	1000
2-in. cal. and up, forcing grade	$3.50	$10.00	$24.00	$90.00
1½ to 2-in. caliper	3.00	8.50	20.00	75.00
1 to 1½-in. caliper	2.50	6.00	14.00	50.00
⅝ to 1-in. caliper	2.00	5.00	11.00	40.00
½ to ⅝-in. caliper	1.75	4.00	9.00	30.00

GRAPEVINES

Our Grapes have heavy fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

	Each	10	100
CONCORD (blue), **FREDONIA** (black), **NIAGARA** (white):			
2-year, No. 1 grade	$0.25	$1.75	$14.00
1-year, No. 1 grade	.20	1.50	10.00
CATAWBA (mahogany), **MOORE'S DIAMOND** (white), **MOORE'S EARLY** (black), **PORTLAND** (white), **WORDEN** (black):			
2-year, No. 1 grade	.30	2.25	17.00
1-year, No. 1 grade	.25	1.75	12.00
AGAWAM (red), **BRIGHTON** (red), **CACO** (red), **DELAWARE** (red):			
2-year, No. 1 grade	.35	2.50	20.00
1-year, No. 1 grade	.30	2.25	15.00

PRIVET HEDGE PLANTS

Our soil and climatic conditions are ideal for the production of good Privet, and we guarantee our stock to be as well grown and developed in grade as any in this country. Write for special prices on large numbers.

	10	100	1000
CALIFORNIA PRIVET (Ligustrum ovalifolium)			
6 to 12 ins., 2 canes or more	$0.65	$ 5.00	$ 40.00
12 to 18 ins., 3 canes or more	.75	6.00	50.00
18 to 24 ins., 3 canes or more	.85	7.00	60.00
2 to 3 ft., 4 canes or more	1.10	9.00	80.00
3 to 4 ft., 5 canes or more	1.50	13.00	120.00
4 to 5 ft., 6 canes or more	2.25	21.00	200.00
IBOLIUM PRIVET (Ligustrum ibolium)			
6 to 12 ins., 2 canes or more	.75	6.00	50.00
12 to 18 ins., 3 canes or more	.85	7.00	60.00
18 to 24 ins., 3 canes or more	1.00	8.00	70.00
2 to 3 ft., 4 canes or more	1.25	10.00	90.00
AMUR RIVER NORTH PRIVET (Ligustrum amurense)			
12 to 18 ins., 3 canes or more	1.00	8.00	70.00
1½ to 2 ft., 3 canes or more	1.25	10.00	90.00
2 to 3 ft., 4 canes or more	1.50	13.00	120.00

ASPARAGUS ROOTS

Our Asparagus roots have made a particularly good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

VARIETIES:
MARY WASHINGTON, PARADISE

	25	100	250	1000
3-year, No. 1	$1.25	$4.00	$8.75	$30.00
2-year, No. 1	.75	2.50	5.25	18.00
1-year, No. 1	.60	2.00	4.00	12.00

CANNAS

FOR DELIVERY FEBRUARY 1 to JUNE 1, 1947.

Carefully grown under our personal supervision, they are true to name, liberally graded, 2 to 5-eye, strong divisions, and will please the most exacting type of customer.

	100	1000
ALLEMANIA. Tall. Flowers bright scarlet with yellow border; green foliage	$7.00	$55.00
AMBASSADOR. Tall. Red flowers; bronze foliage	7.00	55.00
FIREBIRD. Medium. Deep red flowers; green foliage	7.00	55.00
FLORENCE VAUGHAN. Medium. Flowers yellow with red spots on petals, and red throat; green foliage	7.00	55.00
GOLDEN GATE. Tall grower. Flowers open almost pure gold, but soon become richly rayed with orange-crimson; green foliage	7.00	55.00
HUNGARIA. Tall. Pink flowers; green foliage	7.00	55.00
KING HUMBERT. Tall. Scarlet flowers; bronze foliage	8.00	60.00
LOUISE CAYEUX. Medium. A giant-flowered bright rose-scarlet; different from all others; green foliage	8.00	60.00
MADAME CROZY. Dwarf. Flowers red with yellow edge; green foliage	7.00	55.00
PRESIDENT. Tall. Red flowers; green foliage	8.00	70.00
RICHARD WALLACE. Medium. Canary-yellow flowers; green foliage	7.00	55.00
SHENANDOAH. Salmon-pink flowers; bronze foliage	7.00	55.00
WINTZER'S COLOSSAL. Medium. Red flowers; green foliage	7.00	55.00
YELLOW KING HUMBERT. Medium. Yellow flowers; green foliage	7.00	55.00

Free packing for cash with order.

Our Fall 1946—Spring 1947 Wholesale List offers a complete line of nursery stock. If you did not receive a copy, write us today. When requesting wholesale rates, please use your printed stationery.

BUNTINGS' NURSERIES, INC. Box 3 Selbyville, Delaware

New York State Nurserymen's Association. Business trends will be discussed by Alfred Sproat, vice-president of the Lincoln-Rochester Trust Co. Dr. A. B. Buchholz, director of the bureau of plant industry of the state department of agriculture, Albany, will present information on state agricultural and insect control problems.

Following a special luncheon at the hotel coffee shop, John Kelly will preside at a meeting of the Western New York Nurserymen's Association, and chapter 14 of the American Association of Nurserymen will meet for the election of delegates and officers. Before the business session of the New York State Nurserymen's Association, at which Howard Taylor will preside and officers will be elected, George B. Parsons, Sodus, N. Y., member of the state assembly, lawyer and fruit grower, will talk on "The Relationship Between Agriculture and Industry."

Friday evening's banquet will be followed by entertainment featuring A. N. Christy as toastmaster and Charles W. Summers, humorist, as guest speaker. Five western New York nurserymen will sponsor the president's breakfast Saturday morning at the hotel coffee shop.

Eugene S. Boerner, director of plant research for Jackson & Perkins Co., Newark, N. Y., who recently returned from a plant-hunting trip through Europe, will open Saturday's program with an address, "Collecting Plants in Europe since the War." State Senator Austin W. Er-

win, member of the committee on agriculture, will discuss nursery legislative problems.

The Cyclone wrapping machine, product of a Niagara Falls, N. Y., concern, will be demonstrated by Raymond Brown, research engineer. Dr. A. J. Heincke, of the New York state agricultural experiment station, Geneva, will report on activities there, and Dr. C. E. F. Guterman, director of the agricultural experiment station at Cornell University, Ithaca, will present information on experiments in progress at that station.

OREGON PROGRAM PLANS.

A discussion of the new horticultural council will be directed by Walter Upshaw, manager of the Portland office of the Oregon department of agriculture, as a feature of the midwinter meeting of the Oregon Association of Nurserymen, to be held January 21 at the Heathman hotel, Portland. Members of the horticultural council will be introduced following Mr. Upshaw's talk.

A hearing of advisory board committee reports will be conducted by J. S. Wieman, superintendent of the Oregon bureau of nursery service, and R. G. Rosenstiel, of the department of entomology, Oregon State College, Corvallis, will be introduced. Sam Rich, chairman of the legislative committee, will make a special report.

Main speaker for the morning session is Roy Miller, of the Miller Products Co., Portland, Ore., who will speak on "Increased Production Through Soil Building and Pest Control." W. C. Christensen, manager of the Commercial National bank, Hillsboro, Ore., and member of the agricultural committee of the American Bankers' Association, will open the afternoon session with a talk on "The Future of Agricultural Crops, Particularly Pertaining to the Nursery Industry." Open discussion will follow the talk of Mrs. Florence Holmes Gerke on "Shrubs to Propagate for Modern Landscaping."

J. S. Wieman will preside at the advisory board meeting which will be held on the mezzanine floor of the Heathman hotel Monday evening, January 20.

OKLAHOMA PROGRAM.

When the Oklahoma State Nurserymen's Association meets January 16 and 17 at the Huckins hotel, Oklahoma City, one of the featured speakers will be W. P. Atkinson, an outstanding figure in the develop-

LINING-OUT STOCK

Here are a few items available in tree seedlings and shrubs for winter and spring shipment. Write for copy of our wholesale catalog for other items you may want.

CERCIS CANADENSIS.
Redbud.

	Per 100	Per 1000
4 to 6 ins., s.	$1.50	$10.00
6 to 12 ins., s.	2.00	15.00
12 to 18 ins., s.	2.50	20.00

OXYDENDRUM ARBOREUM.
Sourwood.

6 to 12 ins., s.	1.00	12.50
12 to 18 ins., s.	2.50	20.00
18 to 24 ins., s.	4.00	30.00

ROBINIA PSEUDOACACIA.
Black Locust.

4 to 6 ins., s.	.75	6.00
6 to 12 ins., s.	1.00	8.00
12 to 18 ins., s.	1.25	10.00

TILIA AMERICANA.
American Linden.

4 to 6 ins., s.	2.50	20.00
6 to 12 ins., s.	3.50	25.00
12 to 18 ins., s.	5.00	40.00

ALTHAEA ROSEA.
Rose of Sharon.

4 to 6 ins., s.	1.00	6.00
6 to 12 ins., s.	1.50	10.00
12 to 18 ins., s.	2.00	15.00

DEUTZIA, PINK.
Crenata, Pink.
Pride of Rochester.
Creamy.

6 to 12 ins., c.	3.00	20.00
12 to 18 ins., c.	3.50	25.00
18 to 24 ins., c.	4.00	35.00

PRIVET, AMUR RIVER SOUTH.
Southern Evergreen.

4 to 6 ins., s.	.75	4.00
6 to 12 ins., s.	1.00	6.00
12 to 18 ins., s.	1.50	10.00

SYMPHORICARPOS VULGARIS.
Coralberry.

L.O. grade, c.	2.00	15.00
6 to 12 ins., c.	2.50	20.00
12 to 18 ins., c.	3.00	25.00
18 to 24 ins., c.	4.00	35.00

WEIGELA, PINK.

L.O. grade, rooted, c.	4.00	30.00
6 to 12 ins., c.	4.50	35.00
12 to 18 ins., c.	5.00	45.00

PEACH, June Buds.

	Per 10	Per 100	Per 1000
6 to 12 ins.	$1.50	$ 8.00	$ 75.00
12 to 18 ins.	2.00	17.50	150.00
18 to 24 ins.	3.00	25.00	200.00
2 to 3 ft.	4.00	32.50	275.00

Varieties of Peach:

Belle of Georgia	J. H. Hale
Golden Jubilee	Halehaven
Elberta	Red Haven

Write for Wholesale Catalog.

Boyd
NURSERY COMPANY
McMinnville, Tenn.

EVERGREEN TREES

Woodward Globe Arborvitae
12 to 16 ins.
American Arborvitae
3 to 4 ft.
Upright Yew
12 to 18 ins.
Pfitzer Juniper
12 to 18 ins.
18 to 24 ins.
3 ft. and over
Andorra Juniper
30 ins. and over
Waukegan Juniper
30 ins. or over
Prostrate Juniper
12 ins. or over
Colorado Blue Spruce
12 to 18 ins.
18 to 24 ins.
Colorado Green Spruce
12 to 18 ins.
18 to 24 ins.
Norway Spruce
18 to 24 ins.
Douglas Fir
12 to 18 ins.
White Pine
2 to 4 ft.
Scotch Pine
18 to 24 ins.
Austrian Pine
24 to 30 ins.
Mugho Pine
12 to 16 ins.
16 to 24 ins.
Norway Pine
18 to 24 ins.

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HUNT'S EVERGREEN NURSERY
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Mail want list for prices.

THE WESTMINSTER NURSERIES
Westminster, Md.

LINING-OUT STOCK

For Spring 1947

		Per 100	Per 1000
15,000	**Abies balsamea,** 2-yr., S., 1½ to 3 ins.	$ 3.50	$ 25.00
500	4-yr., T., 4 to 8 ins.	15.00	120.00
3500	TT, 8 to 12 ins.	25.00	200.00
350	**Abies concolor,** T., 3 to 6 ins.	20.00	....
875	TT., 10 to 14 ins.	40.00	350.00
3500	**Acer palm. atrop.,** from seed, 2-in. pots	30.00	250.00
14,000	**Berberis thunbergi** (row run), 1-yr., S.	5.00	45.00
50,000	**Berberis thunbergi atropurpurea,** 1-yr., S., 2 to 4 ins.	2.50	20.00
2000	**Biota aurea nana,** pot grafts	35.00	....
1000	**Celastrus orbiculatus,** 1-yr., S.	6.00	50.00
2000	**Chamaecyparis plumosa,** 1-yr., T.	15.00	140.00
500	2-yr., T.	20.00	....
1800	3-yr., T., 8 to 12 ins.	25.00	225.00
1000	**Cham. plumosa argentea,** 1-yr., T.	15.00	140.00
2000	**Cham. plumosa aurea,** 1-yr., T.	15.00	140.00
1800	T., 8 to 10 ins.	30.00	250.00
900	TT., 8 to 12 ins.	35.00	300.00
500	**Cham. plisifera aurea,** 1-yr., T.	15.00	140.00
500	2-yr., T.	20.00	....
1000	**Cham. p. squarrosa veitchi,** 1 yr., T.	15.00	140.00
2000	**Cornus florida rubra,** pot grafts	50.00	....
1000	**Cydonia japonica,** 1-yr., S., 12 to 18 ins.	4.00	30.00
2000	**Daphne cneorum** (rooted cuttings) bare root	10.00	90.00
2000	**Euonymus radicans vegetus,** T., 6 to 10 ins.	25.00	200.00
375	**Juniperus com.** (Oldfield), 3-yr., T., 3 to 6 ins.	15.00	....
2500	**Juniperus excelsa stricta,** 2-yr., T.	30.00	250.00
1000	**Juniperus hibernica,** 2-yr., T.	25.00	240.00
500	3-yr., T., 8 to 12 ins.	30.00	250.00
1500	**Juniperus pfitzeriana,** 2¼-in. pots	20.00	190.00
500	**Juniperus pfitz. Kallay comp.,** 2-yr., T.	30.00	....
1000	**Lonicera bella albida,** H.C., 18 to 24 ins.	6.50	55.00
1500	**Lonicera grandiflora rosea,** H.C., 18 to 24 ins.	6.50	55.00
1500	**Picea excelsa,** TT., 18 to 24 ins.	45.00	400.00
20,000	**Picea pungens,** 2-yr., S., 2 to 4 ins.	6.00	50.00
5000	**Pieris japonica,** 2¼-in. pots	25.00	200.00
2500	**Pinus banksiana,** 3-yr., S., 8 to 16 ins.	3.50	20.00
1200	3-yr., T., 6 to 12 ins.	5.00	35.00
40,000	**Pinus resinosa,** 2-yr., S., 2 to 4 ins.	5.00	35.00
4000	**Pinus rigida,** 3-yr., S., 8 to 14 ins.	3.00	22.50
1000	3-yr., T., 5 to 10 ins.	6.00	50.00
50,000	**Pinus strobus,** 2-yr., S., 2 to 4 ins.	5.00	35.00
1500	3-yr., T., 2 to 4 ins.	6.00	50.00
15,000	**Privet, Ibolium,** H.C., 12 to 18 ins.	5.50	45.00
5000	**Privet, Ibota,** H.C., 12 to 18 ins.	5.50	45.00

		Per 100	Per 1000
30,000	**Pseudotsuga douglasi,** 2-yr., S., 2 to 4 ins.	$ 5.00	$ 40.00
6000	2-yr., S., 3 to 6 ins.	6.00	50.00
2200	4-yr., T., 3 to 5 ins.	15.00	120.00
3000	**Rosa rugosa,** 1-yr., S., 3 to 6 ins.	4.00	30.00
500	**Sorbus aucuparia,** 2-yr., T.	15.00	....
500	**Taxus baccata repandens,** 1-yr., T.	20.00	....
400	**Taxus canadensis stricta,** T., 6 to 10 ins.	35.00	300.00
5000	**Taxus cuspidata,** 1-yr., T.	20.00	180.00
14,000	2-yr., T., 6 to 10 ins.	30.00	250.00
10,000	3-yr., T.	35.00	300.00
3000	5-yr., TT., 8 to 10 ins.	50.00	450.00
4000	**Taxus cusp. brevifolia,** 3-yr., T., 6 to 10 ins.	35.00	300.00
1000	**Taxus cusp. brevi. nana,** 2-yr., T.	35.00	300.00
5000	1-yr., T.	25.00	240.00
9000	**Taxus cusp. browni,** 2-yr., T.	35.00	300.00
2500	TT., 8 to 12 ins.	45.00	400.00
5000	**Taxus cusp. capitata** (from tip cuttings), T., 6 to 10 ins.	35.00	300.00
3075	(from seed), 5-yr., T., 8 to 12 ins.	65.00	600.00
2000	**Taxus media andersoni,** T., 6 to 10 ins.	35.00	300.00
3000	2-yr., T.	40.00	350.00
4000	**Taxus media, Halloran strain,** 1-yr., T.	30.00	250.00
2000	2-yr., T., 6 to 10 ins.	45.00	400.00
3000	**Taxus media hatfieldi,** 1-yr., T.	30.00	250.00
5000	3-yr., T., 6 to 10 ins.	35.00	300.00
2000	TT., 8 to 12 ins.	50.00	450.00
5000	3-yr., T., 8 to 12 ins.	45.00	400.00
4000	**Taxus media hicksi,** 1-yr., T.	25.00	200.00
6000	2-yr., T., 6 to 12 ins.	35.00	300.00
1000	3-yr., T., 8 to 12 ins.	45.00	400.00
1500	4-yr., TT., 8 to 12 ins.	50.00	450.00
2000	**Taxus Moon's columnaris,** 1-yr., T.	35.00	300.00
300	**Thuja douglasi pyramidalis,** pot grafts	35.00	....
500	1-yr., T.	20.00	180.00
1000	**Thuja occ. boothi,** 1-yr., T.	20.00	180.00
1500	**Thuja occ. elegantissima,** 2-yr., T., 6 to 10 ins.	30.00	250.00
900	TT., 8 to 12 ins.	35.00	300.00
500	**Thuja occ. hoveyi,** 1-yr., T.	15.00	300.00
5000	**Thuja occ. nigra,** 1-yr., T.	18.00	150.00
2000	**Thuja occ. pyramidalis,** pot grafts	35.00	....
20,000	**Tsuga canadensis** (collected seedlings), 6 to 10 ins.	....	40.00
	Tsuga caroliniana (collected seedlings), 6 to 12 ins.	20.00	160.00
	12 to 18 ins.	30.00	240.00
250	**Wistaria sinensis,** 1-yr., T., grafts	35.00	....

All the above material is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. All pot grafts will be ready in May, 1947. All this material is listed subject to prior sale.

E. D. ROBINSON SALES AGENCY, Wallingford, Conn.

"A friendly, efficient service"

ment of the state. He was an instructor in journalism at Oklahoma City University, Oklahoma City, before the war and is responsible for the growth of Midwest City from a barren field to a thriving, modern city of 7,500.

A discussion of nursery diseases and their control will be featured at the opening session January 16. Following luncheon, at which Emmett Barbee is to be guest speaker, there will be a discussion of GI training courses. John Maddox will report on the course adopted by the Oklahoma Retail Nurserymen's Association and the Oklahoma Nurserymen's Association. An explanation of the requirements by the federal and state governments for such courses will be

[Continued on page 64.]

BOBBINK & ATKINS
Nurserymen and Plantsmen
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Paterson Ave. E. Rutherford, N. J.

PRINCETON NURSERIES
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KALMIA, RHODODENDRON, AZALEA
CURTIS NURSERIES
CALLICOON NEW YORK

Wholesalers' Handling of Retail Orders

INSURING RETAIL PROFITS.

A situation exists in the nursery business here in Ohio, and I presume in most other states, that is unfair, and it seems to me it should be corrected.

You recently published a number of rules that had been decided as wise and necessary in making for fair trade. These rules were excellent, but to my mind they omitted the most important practice of all. Let me illustrate.

Recently we needed repairs for an irrigation system we had purchased twenty-five years ago. We wrote the manufacturer. We had no idea that any of our local merchants represented this machine. The repairs came C. O. D. We paid the mailman. The next day, happening to be in a local hardware and farm implement store in our village, we saw that our money order had been turned over to him. He was the local representative of the manufacturer who had sent us the repairs. Somewhat startled, we inquired into the matter. Yes, this was a very common occurrence. It did not use to be that way, but now the manufacturer considers his representatives as part of his organization, his salesmen, and he absolutely protects them.

Here is the contrast. Yesterday I drove twenty-five miles to plant just two bushes in a cemetery. They were $4 apiece, and by no stretch of the imagination can I show any profit on the deal. Tomorrow we have four going a similar distance to another cemetery. Still no profit. However, when I solicit a large order, ten miles away, the owner blandly tells me, "Mr. Blank from ——— is bidding on the job. Naturally we want the most possible for our money." Mr. Blank is a wholesaler, thirty miles away, and incidentally, a man from whom we buy quite a few bushes.

This sort of thing happens to us over and over. We take care of the little, no-profit deals, and when a nice big one comes into sight I can bank on one or more wholesalers, being in there competing with us.

It is true that some retailers sometimes make a wholesale price on a fairly large order. There are two reasons for this action. One is that they fear that some of the big boys will be in there bidding; the other is that, because of disappointing sales, they have accumulated a surplus of certain slow-moving items and hope to relieve themselves and at the same time to equal the bids of possible wholesalers. In spite of the fact that we grow fifteen acres of our own plants and try hard to be foresighted, buying them rather small and growing them on up, it still happens that when a large order or two are in the offing we know that if we get the orders we must buy a lot of the bushes going into them. We know, also, that we cannot hope to buy these bushes from a wholesaler and meet his wholesale price if he bids against us. And we know that our prospective customer is not entitled to a wholesale price.

I know that many wholesalers do not want retail business, but are forced to do some of it. I know that they charge retail prices to retail customers and that they do not go away from home and bid on the good, big jobs that they have hunted up, the jobs that I think should come to us in partial reparation for all the little-bitty no-profit sales that we simply have to handle because we are retailers.

It is my opinion that everybody concerned would be better off if this system were changed. If the fear of wholesale bidding against us was removed, there would be much less wholesale bidding by the little fellow who is overstocked on two or three items.

If, in our own work, a big deal offered itself and I knew that I would not be bidding against wholesalers, it would give me a feeling of security and of fairness.

I am certain that the manufacturers of our country would not have adopted their present system if they had not felt it best all the way around. If it is best for them, why not for us?

Charles B. Wing.

LIMITING DISTRIBUTION OF WHOLESALE PRICES.

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FRUIT TREES
East Malling Stocks
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Buy from a firm specializing in exporting plants.
PEPINIERES VANVERT FRERES & FILS S.P.R.L.
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Ask for quotations on items you need, indicating quantities.

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Originators of Azalea Vuykiana (Hardy Dutch Hybrid Azaleas), large-flowering, bloom with foliage; in one white variety and several in nonfading colors.
Propagators and growers of choice nursery stock. All types of Azaleas, Rhododendrons and other broad-leaved Evergreens, Conifers, Roses, Shrubs and Perennials.
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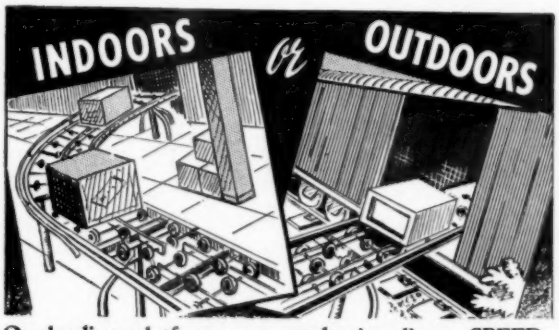
SPEEDWAYS

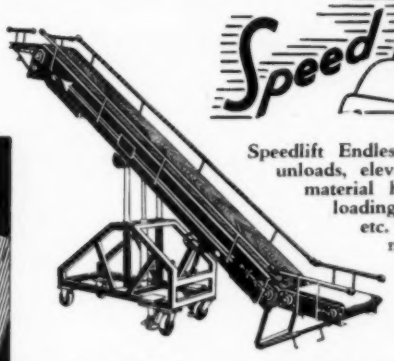


On loading platforms, on production lines—SPEEDWAYS is the shortest, fastest and cheapest distance between two points! Move boxes, cartons, cases, containers, crates speedily and efficiently. SPEEDWAYS are multi-purposed, unlimited in use, cost less to install —less to use.

SOLVE YOUR MATERIAL HANDLING PROBLEMS WITH SPEEDWAYS CONVEYORS! SPEEDWAYS standard model—15 ins. wide over-all, with 10 wheels per foot—can handle 90% of all cases, cartons, boxes, packages, etc.

Write for FREE 2-color illustrated folder.

Speed LIFT



Speedlift Endless Belt Conveyor loads, unloads, elevates, stacks — speeds up material handling in warehouses, loading platforms, freight yards, etc. Cuts handling cost and man hours. Speedlift is sturdy—it has an all-welded structural steel frame — one-piece formed frame construction! No upkeep—no repairs . . . no spare parts! It offers . . . INSTANT, REVERSIBLE CONTROL! START-N-STOP switches at either end (one reversible) of SPEEDLIFT mean controlled material flow at all times in EITHER direction. Just flip the reversing switch—Move a distributed load of 250 pounds in horizontal position—or 150 pounds to 35°—at a speed of 50 feet per minute.

QUIET, SIMPLE AND EASY TO OPERATE!
Four 6-in. diameter RUBBER-TIRE casters—two swivel type, two stationary—permit ease of handling. One man easily moves SPEEDLIFT into tight places and confined areas. HYDRAULIC JACK adjusts SPEEDLIFT to any height and angle from horizontal to 35°.

KEEP 'EM ROLLING WITH SPEEDWAYS CONVEYORS, INC.
1256 NIAGARA ST. BUFFALO 13, N. Y.

Represented by experienced Material Handling Equipment Engineers in principal cities.

North dividing the two cities having a population of 50,000, is where we live and have carried on our business for many years. This, like every other city, has its just share of small and large and varied business enterprises. Here, as elsewhere, our people are plant and tree-minded. One of our newer, up-and-coming business concerns, with its investment in the millions, plans a general beautification program. Its letter asking for wholesale prices on nursery stock and the response of the nursery are of much interest to us. The letter was addressed to one of the larger, recognized wholesale nurseries in the state of Minnesota, and the response of the nursery was as follows:

"This is in response to your letter of November 25, in which you suggest that we send along to you our latest catalog and prices. This we are not in a position to do, as it is not our custom to circulate our wholesale lists except to duly licensed and inspected nursery and greenhouse operators the country over. May we suggest that there is in your vicinity a competent and experienced landscape firm. We refer you to the Christianson Landscape Service, of Fargo. We are confident that if you got in touch with the Christianson Landscape Service you could arrange with it amply to meet your needs for plant-

FINEST GRAPES and BERRIES

		Per 100	Per 1000
50,000	**Concord Grapes**, 1-yr., No. 1	$ 9.00	$ 80.00
10,000	**Concord Grapes**, 1-yr., No. 2	6.00	50.00
8000	**Fredonia Grapes**, 2-yr., No. 1	15.00	140.00
2000	**Fredonia Grapes**, 2-yr., No. 2	9.00	80.00
20,000	**Fredonia Grapes**, 1-yr., No. 1	9.00	80.00
5000	**Fredonia Grapes**, 1-yr., No. 2	6.00	50.00
75,000	**Thornless Boysenberry**, No. 1 tips	5.00	45.00
100,000	**Thorny Boysenberry**, No. 1 tips	6.00	50.00
10,000	**Thorny Youngberry**, 1-yr. plants	3.50	30.00

We have as fine plants as we have ever offered. Enough said to those who have handled our plants.

New customers, give us a trial order with our guarantee to please.

OZARK NURSERY CO.
TAHLEQUAH, OKLA.

	Per 100	Per 1000
Red-leaved Barberry, sdlgs., 3 to 6 ins.	$ 6.00	$ 50.00
Red-leaved Barberry, sdlgs., 6 to 9 ins.	8.50	75.00
Rosa Wichuraiana, 2-yr. T., 2 to 4 ft.	20.00	175.00
Rosa Wichuraiana, 3-yr. T., 3 to 6 ft.	25.00	225.00
Ampelopsis Quinquefolia, 2-yr. T.	12.50	100.00
Ampelopsis Veitchi, 2-yr., medium	25.00	225.00
Ampelopsis Veitchi, 3-yr. TT.	35.00	325.00
Zanthorhiza Apiifolia, 3 to 5-stem strong divisions	12.00	100.00

The above available in quantity. 200 at 1000 rate.

FAIRVIEW EVERGREEN NURSERIES, Fairview, Pa.

SPRING 1947 SHIPMENT

Now is the time to order for spring 1947 delivery. We are growers of **Azaleas** and **Rhododendrons.** Young stock for lining out. For this season's delivery we are still able to offer some unusual varieties, salable and lining-out. Please ask for special list **Azaleas, Rhododendrons, Magnolias, Conifers,** etc.

All inquiries promptly answered by AIR MAIL.

THE HOMESTEAD NURSERIES
H. G. BENCKHUYSEN — PROPRIETOR — BOSKOOP, HOLLAND

1887 *1947*
See January 1 issue for
WHOLESALE PRICE LIST
SHRUBS EVERGREENS
FOREST AND SHADE TREES
VINES AND CREEPERS
FRUIT TREES

CORRECTION
Prices on Pecans, Cherries and 2-year Pear, incorrectly listed in January 1 ad, should be as follows:

PECANS

	Each	Per 10	Per 100
5 to 6 feet	$3.25	$30.00	.....
4 to 5 feet	2.75	25.00	$225.00
3 to 4 feet	2.25	20.00	175.00
2 to 3 feet	1.75	15.00	125.00

Varieties: Stuart, Success, Schley, Burkett, Moneymaker and Moore.

CHERRIES

11/16 to 1-inch	1.60	14.00	125.00

Varieties: Montmorency, Early Richmond and Black Tartarian.

PEAR
2-Year

9/16 to 11/16-inch, 4 feet and up	10.00	90.00
7/16 to 9/16-inch, 3½ feet and up	8.50	80.00
5/16 to 7/16-inch, 2½ feet and up	6.00	55.00

Variety: Kieffer

Pears, Pecans and Cherries sold only in connection with other fruit trees. One-third of total of fruit tree order may be in Pear, Pecan or Cherry.

Spring Trade List will be mailed this month.

FOREST NURSERY CO., INC.
J. R. Boyd, Pres. McMinnville, Tenn.

WANTED
LINING-OUT STOCK

1000	Cotoneaster Acutifolia
500	Cotoneaster Divaricata
300	Beauty-bush
400	Hypericum Aureum
300	Deutzia Lemoinei
300	Tamarix Hispida
500	American Cranberry
500	Viburnum Americanum
500	Viburnum Lantana
200	Hansa Rose
200	Mt. Ash, European, whips
200	Mt. Ash, American, whips
500	Hydrangea P.G.

FANCHER'S NURSERY
Sturtevant, Wis.

WANTED FOR SPRING '47

100	Euonymus Patens, 8 to 10 ins.
100	Euonymus Alatus, 12 to 15 ins.
250	European White Birch, seedlings
100	Pink Dogwood, 18 to 24 ins.

TILLMAN-EAKINS NURSERY
R.R. 2 Newburgh, Ind.

ing of your premises in a farsighted, thorough and workmanlike manner and with reasonable cost in prices."

Now we are, of course, very appreciative of the reference made to our firm, but the one thing we are more appreciative of is the fact that this nursery has seen fit to try not to capitalize on this mail inquiry written on the stationery of a large, highly rated business concern, with perhaps a resultant order of a couple dozen of elms and some assorted shrubbery, but instead has tried to build up confidence in the nurseryman on the home grounds. It is not uncommon for people to shop around for bargains, trying to get away from the established retail prices. Many take pride in buying this or that at wholesale. However, in this particular case the wholesale nursery cooperates with the nurseryman at home, eliminates its wholesale lists, retains good will and in the end gets ten times as much business as if it were handled directly on a wholesale basis.

A short time ago I called at our state college with regard to nursery stock and its needs for spring. While discussing materials in general, I observed lying on the table a recent wholesale catalog from one of the larger nurseries of an adjoining state. There it was, open to the public, teachers and all alike—anyone associated with the college. There are hundreds who can order stock, simply stating their name, care of North Dakota State College. These lists travel from friend to friend, office to office, and the result is that those who are interested in nursery stock, and there are many, familiarize themselves with wholesale prices rather than retail prices.

One of these could well be Mr. Jones up in the next block, who has recently completed the building of his new home, and it is an expensive one. He had inherited considerable wealth and could well afford to put in a $2,000 investment in his yard, but instead his mind had become sidetracked on cheap prices. He finally purchased, out of the wholesale catalog, seedlings of various items, instead of the usual standard grades at standard prices as sold by the local nurserymen.

The majority of wholesale nursery firms, I believe, try to keep their lists confined exclusively to legitimate operators, but there are those who are not too particular. To illustrate, right here in Fargo I know of fraternal and church organizations, college institutions, park boards and others which have received wholesale price lists. These people are not in the nursery business; their incomes are

PRICE CHANGES

Because of additional cost of freight trucking and handling, in order to live, I have to increase some prices on imported nursery stock.

Rhododendron Hybrids

	Per 100
1-yr. grafts	$ 55.00
3-yr. tr., 10 to 14 ins.	115.00
15 to 18 ins., well budded named varieties	160.00
18 to 24 ins., well budded named varieties	180.00

Azalea and all B&B stock relatively higher.

I cannot accept orders for Spring, 1947, imports later than Feb. 5, 1947.

I will have **Belgium-grown Roses** and some **Hydrangea PG.**

The results of my advertisements in American Nurseryman have been very satisfactory and the patronage received much appreciated.

ARTHUR DUMMETT
63 Anderson Road Bernardsville, N. J.
Phone: 8-1340

CORRECTION: Biota Aurea Nana, transplanted grafts (quoted incorrectly in Dec. 15 issue), are **$45.00** per 100.

Northern-grown Lining-out Stock

	Per 100	Per 1000
Aronia melanocarpa, 1 to 2 ft.	$5.00	$45.00
Betula papyrifera, 1 to 2 ft.	6.00	50.00
Clethra alnifolia, 1 to 2 ft.	5.00	45.00
Cornus paniculata, 1 to 2 ft.	6.00	50.00
Fagus americana, 6 to 12 ins.	5.00	40.00
Fagus americana, 1 to 2 ft.	7.00	60.00
Ilex verticillata, 1 to 2 ft.	5.00	40.00
Prunus virginiana, 1 to 2 ft.	6.00	50.00
Quercus rubra, 6 to 12 ins.	5.00	40.00
Rhus typhina, 1 to 2 ft.	5.00	40.00
Syringa vulgaris, 1 to 2 ft.	6.00	50.00
Viburnum cassinoides, 1 to 2 ft.	6.00	50.00
Viburnum dentatum, 1 to 2 ft.	6.00	50.00
Viburnum lentago, 1 to 2 ft.	6.00	50.00
Tsuga canadensis, 4 to 8-in. sdlgs.	4.00	30.00
Tsuga canadensis, 8 to 12-in. sdlgs.	5.00	40.00
Tsuga canadensis, 4 to 8-in. tr.	20.00	180.00

This stock is all first-quality northern-grown collected seedlings, except as noted.

ISAAC LANGLEY WILLIAMS
P.O. Box 352 Exeter, N. H.

Acer Platanoides Norway Maples

Special prices until March 1.

	Per 100
2 to 3 ft., trans.	$ 9.00
3 to 4 ft., trans.	12.00
4 to 5 ft., trans.	13.50
5 to 6 ft., trans.	18.00
6 to 8 ft., trans.	30.00
6 to 8 ft., ¾ to 1-in. cal.	60.00
10 to 12 ft., 1 to 1¼-in. cal.	75.00
12 to 14 ft., 1¼ to 1½-in. cal. well branched	150.00
14 to 16 ft., 1½ to 1¾-in. cal., well branched	200.00
16 to 18 ft., 1¾ to 2-in. cal. well branched	225.00
15 to 17 ft., 2 to 2¼-in. cal., well branched	250.00

Additional charge of 10% will be added for balling and shipping. No charge will be made for loading bulk trucks.

State Road Nursery
State and Sproul Rds.
Route 1. Media, Pa.

HEADQUARTERS FOR STREAMLINER STRAWBERRY PLANTS

The New Everbearing Strawberry

We have grown Streamliner for three years and find it much better than any other Everbearer we have ever grown. We recommend that you take advantage of the publicity which will be given Streamliner during the coming season by listing it in your catalog and advertising. All leading growers who have thoroughly tested Streamliner state without fear of contradiction that it is the best of all the Everbearers. Streamliner has real strawberry flavor, is rich red color throughout, is excellent for eating fresh and is recommended for canning or freezing. Its spring crop compares favorably to that produced by today's leading standard varieties. Very productive. Streamliner makes a good fruiting bed.

If you are interested in large numbers of Strawberry plants, or in our pack-out service (whereby shipments are made direct to your customers under your tags), write for details. We have facilities to take care of your Strawberry plant business. Let us figure with you on your particular requirements.

STANDARD VARIETIES	Per 25	Per 100	Per 250	Per 1000
Blakemore, Dunlap, Missionary	$0.35	$1.15	$2.00	$7.00
Ambrosia Late, Big Joe, Gandy, Klondike, Massey, Maytime, Parsons Beauty, Robinson, Suwannee, Southland, Temple	.40	1.25	2.25	8.00
Catskill, Chesapeake, Dorsett, Fairfax, Fairpeake, Midland, Premier, Redstar, Starbright	.45	1.40	2.50	9.00

EVERBEARING VARIETIES	Per 25	Per 100	Per 250	Per 1000
Gem, Gemzata, Mastodon, Progressive, Evermore (Minn. 1166)	$0.70	$2.25	$4.50	$16.00
New Streamliner	1.00	3.25	7.00	25.00

No extra charge is made for the package or packing on Strawberry plant orders. Prices quoted are for delivery as wanted during the coming shipping season, starting November 1, 1946, and ending June 1, 1947, and apply as follows:
25 to 75 plants of one variety at the 25 rate.
100 to 225 plants of one variety at the 100 rate.
250 to 475 plants of one variety at the 250 rate.
500 plants or more of one variety at the 1000 rate.

All quotations are F.O.B. Selbyville, subject to stock being unsold upon receipt of order.

Write for a copy of our wholesale list, offering a general line of fruit plants, garden roots, also evergreen and deciduous stock. Please use your printed stationery, showing you are entitled to wholesale rates, when requesting trade prices.

BUNTINGS' NURSERIES, INC.

Box 3 **Selbyville, Delaware**

from other professions or taxes provided for the expenditure of nursery stock.

Let us take the park boards for an example. Why should they be entitled to wholesale prices? We who live in the city and have investments pay our just share of taxes toward the maintenance of all these public properties. Certainly the hardware store does not send to the park boards its wholesale lists. The tire companies, telephone, power and light companies do not issue any special wholesale prices, although there may be some slight institutional discounts on varied items.

The sum-up of it all is that many wholesale concerns distribute their lists to those who are not entitled to them. This is a practice which is detrimental to those who are depending in large part upon the stock of the wholesale grower. It would seem that further discussion on the part of others and some remedy, if any, would be in order.

W. T. Christianson.

WANTED

Cotoneaster Acut., hedging, 12 to 18, 18 to 24 ins.
Prunus Triloba, shrubs, 3 to 4 ft.
Spiraea V. H., hedging, 12 to 18, 18 to 24 ins.
Gruss an Teplitz Rose, Oregon-grown, 2-1
Rugosa Roses, 2-1 grades, all colors
Alpine Currant, 18 to 24, 24 to 30 ins.

Christianson Landscape Service
FARGO, N. DAK.

Trees, Evergreens, Shrubs Fruit Trees
Write For Our Wholesale Trade List
W.-T. Smith Corporation
Telephone 2689 **GENEVA, N. Y.**

TSUGA CAROLINIANA
(Carolina hemlock). Carolina hemlock, for lining out; branched trees, excellent roots, 8 to 12 ins, **$75.00** per 1000, packing included. Orders booked for early Spring delivery in 1000 lots only.
THE SCKIPANO NURSERY CO., Warren, Pa.

CANADIAN HEMLOCKS
No loss when you get them in the bands they grew in; just set them out as they are.
2 to 18 ins., in 2 to 3-inch bands.
Now booking 1947 orders.
CALVIN S. GROBAKER
115 Beechwood Ave., Catonsville 28, Md.

We wish to purchase...
Evergreens, Fruit Trees, Shrubs, etc.
Send your surplus list to
THE PONTIAC NURSERY CO., Romeo, Mich.

FRUIT TREES AND ORNAMENTAL SHRUBS

	Per 10	Per 100
Apples, 2-yr., well branched		
1-in. and up	$7.50	$65.00
11/16-in.	6.25	55.00
9/16 to 11/16-in.	4.75	42.50
7/16 to 9/16-in.	3.50	30.00
Burbank Plums		
9/16-in.	5.00	40.00
7/16 to 9/16-in.	4.00	35.00
2 to 3 ft.	3.00	25.00
Abundance Plums		
9/16-in.	5.00	40.00
7/16 to 9/16-in.	4.00	35.00
2 to 3 ft.	3.00	25.00
	Per 100	Per 1000
June-bud Peach		
18 to 24 ins.	$15.00	....
Spiraea vanhouttei, 2-yr., branched		
2 to 3 ft.	10.00	$75.00
18 to 24 ins.	8.00	65.00
Spiraea vanhouttei, 1-yr.		
18 to 24 ins.	5.50	45.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00
Weigela floribunda, red, 1-yr.		
2 to 3 ft., 2 canes or more	22.50	....
18 to 24 ins., 2 canes	17.50	....
12 to 18 ins.	12.50	....
6 to 18 ins., liners	....	65.00
Forsythia, 1-yr.		
2 to 3 ft., 3 canes or more	4.00	35.00
18 to 24 ins.	3.00	25.00
12 to 18 ins. liners	....	20.00
Deutzia, 2-yr., heavy		
3 to 4 ft.	8.00	75.00
2 to 3 ft.	6.00	50.00
Deutzia, 1-yr.		
12 to 18 ins., 2 canes and up	3.00	25.00
6 to 12 ins., liners	....	20.00
Althaea, 1-yr., double red		
2 to 3 ft., 3 canes and up	5.50	45.00
18 to 24 ins., 2 canes or more	4.00	35.00
Liners	2.50	20.00
Privet Hedge, Amur River North		
2 to 3 ft., 3 to 5 canes	10.00	85.00
18 to 24 ins., 3 canes or more	7.50	65.00
12 to 18 ins., 2 canes or more	6.00	50.00
6 to 12 ins., liners	3.00	25.00
Privet Hedge, California		
2 to 3 ft., 2 to 3 canes	....	30.00
18 to 24 ins., 2 to 3 canes	....	26.00
12 to 18 ins., 2 canes	....	20.00
Lombardy Poplar		
2 to 3 ft.	3.00	25.00
18 to 24 ins.	2.50	20.00
12 to 18 ins.	2.00	17.50
6 to 12 ins., liners	....	15.00

F.O.B. McMinnville, Tennessee. Free packing when cash accompanies order. All prices subject to stock being unsold on receipt of order.

Also complete line of Forest Tree Seedlings and Lining-out Stocks.

SANDERS NURSERY

Route No. 5 McMinnville, Tenn.

CARLOADS OF JUNIPERS
UPRIGHT-GROWING

Dundee, Hillspire, Keteleer, Nevin's Blue, Silver Glow, Sylvester or Reeves, Virginiana Glauca, Vonehron, Trained Upright.

HORIZONTAL-GROWING

Japanese, Savin, Vonehron, Waukegan and others.

Ask for catalog. Wholesale only.

VERHALEN NURSERY CO.
Scottsville, Texas

Old English BOXWOOD
(Wholesale Only)

All slow-grown dense specimens. Red clay soil. Priced by height and spread. 18x12 ins. to 24x22 ins. in unlimited quantities. Also large specimens up to 5 ft. Write for price list.

BOXWOOD GARDENS
Mrs. R. P. Royer High Point, N. C.

OBITUARY

Elmer L. Clavey.

Elmer L. Clavey, aged 50, founder and head of Elmer Clavey, Inc., Highland Park, Ill., was fatally stricken with a heart attack December 20 while driving his automobile in Grant park, in downtown Chicago. He was landscape architect and horticulturist of the Illinois state department of public welfare.

Before establishing his own office and salesyard on the original family farm at Clavey's Corners, Highland Park, Mr. Clavey was president of F. D. Clavey Ravinia Nurseries, Inc., Deerfield, Ill., a firm founded by his father and now operated by his brother, Roy Clavey.

Elected president of the Illinois State Nurserymen's Association in 1935, he was a former secretary and treasurer of the Lake county Republican central committee. Survivors are his widow, Marie; three sons, John, Gordon and James, and a daughter, Mrs. Bette Reach.

Charles A. Palmgren.

Charles A. Palmgren, founder of the Palmgren Nurseries, Glenview, Ill., died December 22 at Hollywood, Fla., where he had made his home the past two years. Funeral services were held at Glenview December 27.

Mr. Palmgren, who was born in Sweden in 1869 and practiced horticulture in both Sweden and Germany, came to the United States to assist in the Swedish exhibit at the World's Columbian Exposition, held at Chicago in 1893. Before founding his own nurseries in 1910, he had served as superintendent of the nursery of Swain Nelson & Sons Co., Glenview. The Palmgren Nurseries are now managed by his sons, Arthur L. Palmgren, who was president of the Illinois State Nurserymen's Association in 1933, and C. Elmer Palmgren, currently president of the same organization.

Charles Palmgren was an original member of the Glenview Congregational church and a former member of the Glenview school board. In addition to his two sons, he is survived by his widow, Louisa G., a daughter, Lillie, and two grandchildren, Marilyn and Annette.

Junius T. Foote.

Junius T. Foote, president of the Durant Nursery Co., Durant, Okla., died December 3 at his home, at Durant, of a cerebral hemorrhage. He had been in poor health, but his

The lovely Yellow Rose V for Victory *and other*

SUB-ZERO HYBRID TEAS

Large and beautiful as any.
Easy to grow and long to live.
Save replacement expense.
Also Yellow and Orange Climbers.

Write for trade prices to

BROWNELL ROSES
LITTLE COMPTON, R. I.

HESS' NURSERIES

Mountain View,
New Jersey

VIBURNUM BURKWOODI

New—Fragrant—Hardy
Pinkish-white flowers in May

Heavy pot-grown stock for lining out. Spring 1947 delivery.

	Per 100	Per 1000
2½-in. pots	$35.00	$300.00

F.O.B. Dayton, Ohio.
No charge for packing if check accompanies order.
Write for new trade list.

THE SIEBENTHALER COMPANY
Dayton 5, Ohio

QUERCUS
ROBUR FASTIGIATA
(English Pyramidal Oak)

1½ to 3½-in. cal., B&B
$15.00 to **$50.00** each
F.O.B. Cincinnati

WYOMING NURSERIES
C. E. Kern
Cincinnati 15, Ohio

Grapevines, Currant Roots, Currant Cuttings and Berry Plants.
Small Fruit Specialists.

WEST HILL NURSERIES
Fredonia, N. Y. Since 1875

JEWELL PROPAGATORS

Growers of a complete line of deciduous and coniferous species.

JEWELL NURSERIES, INC.
Lake City, Minn.

Northern-grown Stock

Send for Price List.

J. V. BAILEY NURSERIES
St. Paul 6, Minn.

NORTHERN-GROWN EVERGREENS

We offer a splendid assortment of Evergreens from dwarf prostrate to upright—from rooted cuttings to specimen plants. Write for complete list of Evergreens.

BROWN DEER NURSERIES
Operated by
HOLTON & HUNKEL CO.
P. O. Box 1747
Milwaukee 1, Wis.

Wholesale growers of
SMALL FRUIT PLANTS
Grapes, Currants and Raspberries—our specialty.
Hydrangea P. G.
FOSTER NURSERY CO., INC.
69 Orchard St. Fredonia, N. Y.

The **CHRYSANTHEMUM CATALOG** you cannot afford to be without.
WONDERLAND NURSERIES
Ellerson, Va.

death came suddenly, at the age of 70.

Born at Nacogdoches, Tex., August 16, 1876, he married Miss Mary Bell Sims, at Corsicana, Tex., July 19, 1901. They moved to Durant from Sherman, Tex., in 1905, but moved back for a short while before making Durant their permanent home in 1907.

Besides building the Durant Nursery Co. to one of the largest firms in the southwest, Mr. Foote was active in local civic business and religious organizations. He had served as mayor of Durant, president of the Oklahoma Nurserymen's Association, president of the Durant Lions' Club and president of the Durant chamber of commerce.

Because of failing health and poor eyesight he retired from active management of the nursery two years ago, his three sons, Bob, Jack and Bill, carrying it on.

He is survived by his widow, three sons and one daughter, Mrs. J. T. Ehricht, of Dallas; a brother, two sisters and seven grandchildren.

Earl E. May.

Earl E. May, president and founder of Earl E. May Seed & Nursery Co. and of the May Broadcasting Co., Shenandoah, Ia., who died December 18 at Saint Mary's hospital, Duluth, Minn., at the age of 58, was noted for the warm, personal approach he used in dealing with his large number of mail-order customers and the wealth of information he provided them through his catalogs and his personal appearance as announcer on his radio station KMA.

Born and raised on a farm ranch in western Nebraska, where his parents were pioneer homesteaders, he taught school in the country district near Wauneta, Neb., and entered the University of Michigan law school in 1911. His course of study was cut short in his junior year, when his father became ill, but in 1914 he entered the University of Nebraska, where he was granted his LL. B. degree.

He became interested in the seed industry while working for the D. M. Ferry Seed Co., Detroit, Mich., during the summers of his college course. His early experience in the nursery field was under the direction of E. S. Welch, founder and president of Mount Arbor Nurseries, Shenandoah, Ia., which firm he served as vice-president in charge of sales. With E. S. Welch as president and himself as vice-president, the May Seed & Nursery Co. was founded in 1918. Mr. May later became president of the firm bearing his

Series No. 3.
LANDSCAPING MASTER UNITS
Second Section
Covering Operating Costs of
Large Tree Moving
Removing Existing Trees
Street Tree Planting
Cemetery Plantings
Hedges
Bank Erosion
Soils—Waste

LABOR REPORT FORMS
PLANS
And many other items.
READY FEB. 15, 1947
Orders Being Taken Now
Price: **$3.00** per copy

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Cost Analyst
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TREES SHRUBS
EVERGREENS
Wholesale growers of a general assortment for the best landscape plantings.
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3-yr., 2 to 3 feet	$35.00
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Sturdy Plants.
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Jun. Pfitzeriana, B&B, and pots.
Taxus in variety, B.C., tr. and pots.
Weigela, Eva Rathke, 2-yr. frame tr.
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Contracting now for future delivery.
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BURTON'S
HEADQUARTERS FOR
EVERGREEN GRAFTS, TRANSPLANTED EVERGREENS, SHRUB LINERS.
RARE ITEMS YOU DO NOT FIND IN MOST LISTS! *Write!*
HILLTOP NURSERIES
CASSTOWN, OHIO

name, which operated about thirty nursery and seed stores in Iowa. His wife is the former Miss Gertrude Welch, of Shenandoah, daughter of E. S. Welch.

Mr. May recognized the possibilities of radio as a means of education and pubilicity and used that medium in the interests of the farm communities served by his seed and nursery company.

Elected president of the American Association of Nurserymen in 1925, he was also active in many local community groups, including the Shenandoah chamber of commerce, the Masonic lodge, the Congregational church and Kiwanis International. An honorary degree of doctor of laws was conferred on him in 1938 by Tarkio College, Tarkio, Mo., in recognition of his outstanding contributions to education and agriculture. His initial grant of $75,000 and subsequent contributions made possible the experimental station in Guatemala sponsored by Iowa State College.

The immediate cause of Mr. May's death was coronary thrombosis. He had suffered a heart attack early in September, while vacationing at his summer home at Mercer, Wis., and although he had recovered sufficiently to spend a few days at Shenandoah early in October, he was again confined to the hospital at Duluth, where he remained until his death.

Survivors include his widow and a son, Edward, associated with the May Seed & Nursery Co., who were with him at the time of his death, and a daughter, Mrs. J. D. Rankin, Jr.

Henry W. Kruckeberg.

Henry W. Kruckeberg, who was secretary of the California Association of Nurserymen from 1907 until 1931, died at the age of 91 after a long illness, October 19, at South Pasadena, Cal. Born at Minneapolis, Minn., he went to the Pacific coast in 1881, establishing the first newspaper at Spokane Falls. Two years later he joined the staff of the Rural Californian. In 1905 he founded the Kruckeberg Press, which is now operated by a son, Arthur W. Kruckeberg. Another son, Dewey R. Kruckeberg, is superintendent of parks at Burbank, Cal.

Robert Martin.

Robert Martin, owner of Martin's Nursery, Carrollton, Ky., died at his home on December 20, after an illness of six months.

Mr. Martin was born in 1900 in Carroll county, Kentucky. In 1923 he started working for the Willadean

C. M. Hobbs & Sons, Inc.
BRIDGEPORT INDIANA
Established 1875
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GINKGO
NORWAY MAPLE
SOFT MAPLE
SWEET GUM
THURLOW WILLOW
WELL GROWN EVERGREENS, in variety.

BOSTON IVY
Extra-Heavy

	Per 100
3-yr., 2 to 3 feet	$30.00
2-yr., 18 to 24 inches	23.00
2-yr., 12 to 18 inches	15.00

DUGAN NURSERIES
Perry, Ohio

THORNLESS
ROSA MULTIFLORA JAPONICA
This selection roots here 99 per cent. Not one thorn to an average 100 bushes. Holds its branches high off the ground. They are easy to get at to bud.
Buy now, bud in June, sell monthly rosebushes next fall.
Cuttings, 8-inch average length.
$2 per 100 $18 per 1000 $75 per 5000
De-eyed, 10c extra per 100.
24 to 48-inch lengths figured on same basis.
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Book orders early.
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Growers of Quality Evergreens
Lining-out Stock a Specialty
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EVERGREEN NURSERY CO.
Established 1864 : STURGEON BAY, WIS.

Wholesale growers of the best
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FOR SPRING DELIVERY

3000 **Apple**, 2-yr.	Per 100
11/16 to 1-in.	$55.00
9/16 to 11/16-in.	45.00
7/16 to 9/16-in.	35.00

Varieties: Winesap, Stayman, Jonathan, Red and Yellow Delicious, Grimes Golden and Romo Beauty.

	Each
100 **Redbud**, 3 to 4 ft.	40c
100 **Spiraea Froebeli**, 18 to 24 ins., heavy	40c
500 **Green Barberry**, 15 to 18 ins., heavy	18c
100 **Althaea Double, White and Purple**, 3 to 4 ft.	40c
500 **Catalpa Speciosa**, 1 to 1½-in. cal., 5 to 7-ft. stems	25c

Blakemore Strawberry (yellows-free) $17.50 per 1000; $65.00 per 10,000.

¼ cash to hold order; packing at cost.

WANT—2-yr. Roses and Liners.

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Ilex Opaca.	Per 1000
4 to 6 ins.	$15.00
6 to 12 ins.	25.00
12 to 18 ins.	40.00
Kalmia Latifolia.	
4 to 6 ins.	15.00
6 to 12 ins.	25.00
Tsuga Canadensis, Hemlock.	
4 to 6 ins.	15.00
6 to 12 ins.	25.00

TREE SEEDLINGS

Cercis Canadensis.	
6 to 12 ins.	15.00
12 to 18 ins.	25.00
Liriodendron Tulipifera. Tulip Tree.	
6 to 12 ins.	10.00
12 to 18 ins.	15.00
18 to 24 ins.	20.00
2 to 3 ft.	30.00
Sugar Maple.	
6 to 12 ins.	15.00
12 to 18 ins.	20.00
18 to 24 ins.	30.00

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QUALITY ROSEBUSHES

2-yr. Budded Stock

Good standard and patented varieties. Bundles of ten or carloads.

Write for our wholesale price list.

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200,000 **Cushion Chrysanthemums.** No. 1, **rooted divisions.** Also, 3 to 5-eye **Peony Divisions.**

Amur River North Privet Hedge.

No. 1 Wilder (Currant) Plants.

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No. 1 Peach Seedlings.

Strawberry Plants.

Write for Wholesale List.

O. K. NURSERY
R.R. 2. Buchanan, Mich.

Nursery, at Sparta, Ky., and five years later he became manager of the firm. In 1930 he became a business partner of Nick Verburg, of Nick's Nursery, Anchorage, Ky. He established his own business in 1932 under the name of Martin's Nursery.

Mr. Martin was an active member of the American Association of Nurserymen and the Kentucky State Nurserymen's Association. He was an honorary member of the Louisville Retail Nurserymen's Association.

He is survived by his widow, a daughter and two sons.

L. W. Ramsey.

L. W. Ramsey, head of the L. W. Ramsey Advertising Agency, Davenport, Ia., died January 2 at the age of 55 at a hospital at St. Louis, Mo., where he had been taken for an operation.

Mr. Ramsey came into close contact with nurserymen throughout the country when he handled the ambitious publicity program sponsored by the American Association of Nurserymen in the late 1920's. He was the author of a book, "Landscaping the Home Grounds."

LeRoy M. Smith.

LeRoy M. Smith, founder and publisher of the Seed World until he sold the publication several years ago, died January 1 at his home, at Wilmette, Ill. Upon selling the periodical, he devoted himself to the Seedburo Equipment Co., of which he was president. Survivors include his widow and a daughter, Mrs. Gail Phillips.

TEXAS GARDEN CLINIC.

Hundreds of persons have visited the new Mancill Allen Nursery & Clinic, which was formally opened recently at 1930 West Gray street, Houston, Tex. Mr. Allen, who bought the site some time ago, planned the buildings himself. The main building, constructed of white brick, is southern colonial in style and has a conservatory adjoining it for potted plants and flowers and a laboratory for soil analysis. In addition, there are greenhouses and other nursery buildings.

The reception room is large and beautifully furnished with antique colonial pieces which harmonize with the architecture. Mr. Allen is a graduate of Mississippi State College, department of horticulture, and studied landscape architecture at the University of Southern California. He conducts garden clinics at Dallas, Tex., and other cities and maintains a growing farm at Clodine, Tex.

EVERGREENS
Sheared Stock

Available for immediate shipment.

Juniper Dundee, 4 to 5½ ft.
Juniper Keteleer, 4 to 5½ ft.
Juniper Burki, 4 to 6 ft.
Juniper Canaerti, 3 to 4 ft.

We invite your inspection of these plants if interested. Write us for prices.

PAUL ARTERBURN NURSERY
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Wholesale growers of a fine assortment of

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We can supply you field divisions, field clumps, rooted cuttings and plants established in 2-in. bands or pots.

Spring 1947 list ready.

Write for quotations.

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Send for our wholesale list, just off the press, listing **80 varieties of surplus clumps at $3.50 per 10 and up,** and **140 varieties of rooted cuttings at $1.00 per 10 and up.**

SMITH GARDENS & NURSERY
Lewiston, Idaho

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Splendid Stock
Write for Special Quotations

LESTER C. LOVETT
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25,000
Peach trees in leading varieties.

20,000
1 and 2-year-old Apple in leading varieties.

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A general line of Shade Trees, Evergreens and Shrubs. We are still booking orders for Apple and Pear grafts for Spring shipment.

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Nursery and Landscape Co.
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STILL AVAILABLE
Latham Raspberries
Per 1000
No. 1, 3/16-in. and up..... $50.00
Chipman's Canada Red Rhubarb
Each per 1000
No. 1 divisions.....$0.35
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Outdoor-grown • Frostproof Varieties
Early Jersey, Charleston Wakefield, Flat Dutch, Gloria Enkhuizen and Copenhagen Market.
2000 plants for $3.00; express collect.

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Crystal Wax, Yellow Bermuda, Yellow or White Sweet Spanish.
6000 plants for $4.75; express collect.
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CULTIVATED BLUEBERRY PLANTS
1, 2 and 3-year Cultivated Blueberry plants.
From $1000.00 to $2000.00 per acre taken in from this crop this past summer in Eastern states. New Jersey grows more blueberries than the other states combined. The cultivated blueberry originated in this state.
Sample price, $20.00 per 100, for 1-yr., well rooted plants; none better anywhere. List sent of prices, varieties, 1, 2 and 3 yrs. old.
Also Sunset Red Raspberry plants, heavily rooted, carry special raspberry certificate, $30.00 per 1000.
WARREN SHINN
Woodbury, N. J.

SMALL FRUIT PLANTS
Evergreens — Shrubs
Asparagus — Rhubarb
Send for Complete Trade List
W. N. SCARFF'S SONS
NEW CARLISLE, O.

A. S. H. S. OFFICERS.

Officers for 1947 elected by the American Society for Horticultural Science at its recent annual meeting, at Boston, Mass., are: President, Dr. H. B. Tukey, Michigan State College, East Lansing, Mich.; vice-president, Dr. J. E. Knott, University of California, Davis, Cal.; secretary-treasurer, Dr. F. S. Howlett, Ohio State University, Columbus, O.

ALBERT C. BURRAGE AWARD.

At a meeting of the board of trustees of the Massachusetts Horticultural Society held December 16, Bay State Nurseries, North Abington, Mass., were awarded the Albert C. Burrage gold vase. This is a unique and much-coveted trophy given each year to the most outstanding exhibit in any of the society's exhibitions held during the year.

The exhibit which won the award for the Bay State Nurseries was a colorful, well designed and executed memorial garden, staged at the 1946 diamond jubilee spring flower show, held in the Mechanics building, at Boston.

NEHRLING NEW SECRETARY OF MASSACHUSETTS GROUP.

Arno H. Nehrling has been appointed executive secretary of the Massachusetts Horticultural Society, effective January 1.

Mr. Nehrling has been director of flower shows for the Massachusetts Horticultural Society since 1934. In this capacity he has directed not only the big New England spring show, but also the numerous exhibitions that are held throughout the year. In his new work, he succeeds Edward I. Farrington, secretary of the society for twenty-three years, who retires because of ill health.

Mr. Nehrling was born in Missouri and received his early education in the public schols of Milwaukee, Wis., and Concordia College. In 1905 he passed a competitive examination for a scholarship at Missouri Botanical Garden and Shaw School of Botany, at St. Louis, Mo., graduating in 1909. From there, he went to the Chicago public schools to be in charge of school garden work. A year later, he became assistant in floriculture at the University of Illinois. After three years on the staff at Illinois, he was appointed head of the department of floriculture at the Massachusetts Agricultural College, Amherst, Mass. He held this position until 1917, when he entered the commercial field as presi-

PEACH STILL AVAILABLE
We still have a few thousand Peach in Elberta, Red Haven, Hale Haven, J. H. Hale, Ea. Elberta, Ea. Hiley and Golden Jubilee. A few thousand One-year Apple. Write for our wholesale list.

GROW CONTRACTS
We are still accepting contracts for 1947 delivery: June-budded Peach, Plum, Apricots, Combination Peach, Plum, Apricots and Apple, also One-year Peach, Plum and Apricots, for 1948 delivery.
J. C. SISK NURSERY CO.
Winchester, Tenn.

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Our General Line of
SMALL FRUIT PLANTS
Let us quote on your requirements.
L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

1-yr. Concord and Niagara Grapevines
1-yr. Peach
Shade Trees
Flowering Crab
White Dogwood
Purple Plum
WILLOWBEND NURSERY
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FRUIT TREES
AND
SMALL FRUITS
HARRISON BROTHERS NURSERIES
G. Hale Harrison, General Manager
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ENGLISH WALNUT LINERS
2-yr. old, large roots. First time in 20 years we have offered our own hardy, Northern Circassian.
H. H. CORSAN
Northern Nut Tree Specialist
Hillsdale, Mich.

THE NEW PIXWELL
ushers in a new era in **Gooseberry** growing. Easy to pick, hardy, and most productive, the Pixwell puts profit in gooseberries.

ARROWHEAD Strawberry (Minnesota 1118)
is a step forward in high quality strawberry growing. Extra hardy, prolific, and productive.

RUBY Rhubarb
True to name.

Write for prices.

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BERGESON NURSERY
Fertile, Minn.

GRAPE ROOTS
Grown on gravel land.
(There are none better.)
Catawba, Delaware, Worden, Niagara, Caco, Brighton, Fredonia, Agawam, Moore's Early, Concord and Ontario.
Send us your list of wants for immediate quotations.
CHAMPION NURSERIES
Perry, O.

Maloney's
Offer for Spring delivery **2-year Standard Apple, Sweet** and **Sour Cherry** and **Standard Pear.** Also **2-year Shrubs,** bushy, well rooted, twice transplanted. Write for wholesale circular.
MALONEY BROS. NURSERY CO., INC.
Dansville, New York

WE OFFER FOR SPRING DELIVERY
Thornless Raspberry, 1 and 2-yr.
Cumberland Black Raspberry, tips.
Sunrise Red Raspberry, 1 and 2-yr.
Fredonia Grape, 1 and 2-yr.
KEITH PLANT NURSERY
Sawyer, Mich.

dent and manager of McDonald & Co., Crawfordsville, Ind.

In 1921, he sold his interest in McDonald & Co. to accept an appointment as professor of floriculture at Cornell University, Ithaca, N. Y. After seven years at Cornell, he accepted the position of sales manager of the Hill Floral Products Co., Richmond, Ind., leaving to join the executive staff of the Massachusetts Horticultural Society.

ARBORETUM OFFICERS.

Succeeding Dr. Donald Wyman, of the Arnold Arboretum, who had served since the organization of the association in 1940, Henry T. Skinner, curator of the Morris Arboretum,Chestnut Hill, Philadelphia, Pa., is the chairman of the American Association of Botanical Gardens and Arboretums.

Vice-chairman is C. F. Wedell, head of the school of horticulture at the State Institute of Applied Agriculture, Farmingdale, L. I., N. Y. Secretary is C. E. Godshalk, director of the Morton Arboretum, Lisle, Ill.

Directors are John C. Wister, director of the Arthur Hoyt Scott Horticultural Foundation, Swarthmore College, Swarthmore, Pa., and Henry Teuscher, curator of the Montreal Botanical Garden, Montreal, Canada.

BROWN STEM OF ROSES.

The article on "Insects and Diseases of Roses," by M. B. Cummings, in the December 1 issue, was quite instructive, but did not include mention of brown stem of roses and its control. C. N. H.—Ill.

Brown stem of roses is relatively unimportant in the eastern United States. It is caused by a fungus known as Diaporthe umbriana. It is also known as brown canker and brand canker. On the stem there are reddish circular spots, which turn white on young stems. These form amber-colored cankers in the following spring, and there are brown to purplish spots on the foliage. The stems die back.

In the spring prune off all canes which show canker and cut well below—three to four inches below—diseased areas. Prune as soon as any canker shows, however small. Cleanse pruning tools before operating, and carefully sponge the cuts and the tools with dormant lime-sulphur. Apply a dormant lime-sulphur spray before growth starts in spring. Dust with fine sulphur during the summer at 10-day intervals.

M. B. Cummings.

Real Deal

GRAPES
Heavy, two-year,
No. 1 **CARMAN GRAPES.**

Price:	10	100	1000
2-yr. No. 1	17c	15c	12c
1-yr. No. 1	13c	10c	8c

FIGS—FIGS
TEXAS EVERBEARING
and **MAGNOLIA**
1 to 2 ft., **15c,** 2 to 3 ft., **20c**
3 to 4 ft., **35c,** 4 to 5 ft., **40c**
Pure-Strain **ELBERTA**
Low-price **PEACH**
Send Your Want List To:
WOLFE NURSERY
Wholesale Dept.
Stephenville, Texas

RED LAKE CURRANTS
RED RASPBERRIES
Hansen's BUSH CHERRY
PARADISE ASPARAGUS
•
ANDREWS NURSERY CO.
FARIBAULT, MINN.

GRAPEVINES, CURRANTS, GOOSEBERRIES and BERRY PLANTS
Can also supply Currant lineouts and cuttings.
Known to the Wholesale Trade for Small Fruit Plants of Superior Quality Since 1890.
F. E. SCHIFFERLI & SON NURSERIES
Fredonia, N. Y.

BUXUS SEMP. WELLERI
(Weller's Hardy Northern Type)
Only Boxwood proved hardy in Northern States for Twenty Years.
Ask for our Perennial catalog.
WELLER NURSERIES CO., Inc.
Leading Perennial Growers
Holland, Mich.

Washington Meetings

DISCUSS NURSERY PROBLEMS AT WASHINGTON MEETING.

One part of the sessions of the Western Washington Horticultural Association held recently at Puyallup, Wash., was devoted to the problems of nurserymen. Various specialists spoke on phases of the nursery industry and pointed out solutions to some of the problems. Dr. John Hanley, of the University of Washington arboretum, Seattle, was chairman of the group. In attendance were nurserymen and growers from many parts of western Washington.

Dr. C. D. Schwartze, of the western Washington experiment station, Puyallup, gave some interesting clues to new fruits and berries that are worthy of propagation. A list of fruits, including large tree and bush types, was presented. These fruits had proved successful for western Washington at the experimental station, and it was recommended that nurserymen write to the station for printed lists of these materials.

The floricultural and landscape training program of the State College of Washington, Pullman, was outlined by O. B. Howell, instructor in these courses. It was pointed out that the course had been newly designed on a practical basis and that some modern greenhouses would soon be available. Bulletins on the culture of ornamental plants for the state were also promised.

A basis for selecting plant materials for landscape planting was presented by E. W. Grohs, landscape architect, Seattle, and L. N. Roberson, Seattle, described some new electric aids in propagation.

David Brannon outlined the latest developments in the use of DDT on ornamentals. Dr. E. P. Breakey, of the experiment station at Puyallup, gave detailed instructions for the control of pests of holly. These instructions are available in pamphlet form from the station at Puyallup or from county agents. M. R. Harris, of the extension service of the state college, gave the latest news on new fungicides for old diseases.

An illustrated lecture on the virus disease situation was presented by Dr. Earl C. Blodgett. Research work on stone fruits is being carried on at the branch experiment station at Prosser.

Paul D. Brown, superintendent of the University of Washington arboretum, spoke on the value of an arboretum to the Pacific northwest.

C. W.

WASHINGTON STATE ELECTION OF OFFICERS.

An open meeting of the Washington State Nurserymen's Association was held in the County-City building, Seattle, December 20. About forty nurserymen attended, and agreed that it was one of the best meetings held for many months. The election of officers was presided over by Dick Williams, of Tacoma. Harold Wells, Wells Nursery, Mount Vernon, was elected president; L. N. Roberson, Seattle, vice-president, and Harold Hopkins, Hopkins Nursery, Bothell, secretary-treasurer.

Brian O. Mulligan, who recently assumed his duties on the staff of the University of Washington arboretum, gave an interesting talk on the highlights of the Wisley garden, a world-famed horticultural station in England. Until a few months ago he was assistant curator there.

Wisley is a 240-acre trial and experimental garden maintained by the Royal Horticultural Society in England. The garden, which was once a private estate, is financed by the society. According to Mr. Mulligan, there are three main purposes of the establishment. First, it is designed to serve as a trial and proving ground for all plants, both ornamental and economic. Here members of the society, as well as others interested, can watch the development of new plants and compare them with some of the tried and true. There is a committee which judges the merits of new plants on trial, and for especially qualified plants an award of merit is given. An award of merit from this trial is universally accepted as indicating high quality. A schedule of trials of special groups of plants is circulated so that growers can prepare several years ahead if they want to enter some new hybrid for trial.

The garden at Wisley also serves as a training ground for student gardeners. A 1 or 2-year practical course is held at Wisley for the training of persons wishing to become professional gardeners. At present between twenty-five and fifty students are engaged in this study at the garden. Some of these reside on the grounds and are paid a maintenance fee while studying.

A third function is the operation of a laboratory and a research staff. This staff solves problems brought in by members of the Royal Horticultural Society and those problems brought to light by other work at the garden.

RED RHUBARB

	Per 100
MacDONALD	$20.00
CANADA RED	40.00

40,000 true-to-name **No. 1 divisions.** Let us quote on your requirements.

KEELER'S GARDENS
Sioux Falls, So. Dak.

1947 SPECIALS

1-yr. and 2-yr., **Apple** and **June-bud Peach**, priced low. 20,000 or more 1-yr. **Concord** and **Fredonia Grape**, row run, **$40.00** per 100. **Amur River North** and **California Privet**, liners, **$25.00** per 1000; 12 to 18 ins., **$35.00** per 1000; 18 to 24 ins., **$45.00** per 1000.

ROLLERS WHOLESALE NURSERY
Rogers, Ark.

STRAWBERRY PLANTS

GEM EVERBEARING
SENATOR DUNLAP

We have in surplus at present about two million each of these kinds. If you have an outlet for a large number of strawberry plants, let us quote you a very attractive quantity price on your requirements. We have had a perfect growing season, and the quality of our plants was never better. We are equipped to get out large quantities on short notice.

In Rhubarb we have around a hundred thousand Victoria roots of ½ to 1½-in. caliper.

Can ship any time. Ask for samples.

C. D. WRIGHT
Hamburg, Iowa

APPLE SCIONS

Let us have your want list. We have a good supply of leading varieties.

GOLDEN EAGLE NURSERY
Golden Eagle, Ill.

STRAWBERRY PLANTS

If you deal in or use strawberry plants you cannot afford to be without our prices. All standard varieties.

H. D. RICHARDSON & CO.
Willards, Md.

AZALEA TRIUMPH

Most beautiful of all Indica Belgium types; fully double, deep cyclamen-red flowers, often 3 inches across. Petals daintily twisted. Best forcing type. Real money-maker.

2-inch Pots
Per 100..**$20.00** Per 1000..**$175.00**

3-inch Pots
Per 100..**$40.00** Per 1000..**$350.00**

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Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. **Angers Rooted Quince Cuttings, Chinese Elm Seedlings, Norway Maple Seedlings and English Privet.**

We also have **Norway Maples,** 3-yr. branched, and **Norway Whips** and **E. W. Birch,** 3 yrs. old, well branched.

We aim to please with quality stock.

John Holmason & Sons, Props.

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FRUIT TREES
and
GRAPEVINES

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McFARLAND, CAL.

SEEDS
Collectors of Tree, Shrub and Wild Flower Seeds
Crude Drugs and Ornamentals
E. C. MORAN Stanford, Mont.

Mr. Mulligan described several of Wisley's unusual features, including a large rock garden, a large heather garden which has something in flower almost the entire year and an herbaceous border a hundred yards long, which is at its best in July, August and September.

F. A. Wiggins, grand old man in Washington nursery circles, also attended the meeting of the Washington association. Mr. Wiggins is 78 years old and still active in his business of selling nursery products throughout the country. In a short talk Mr. Wiggins stressed the fact that the demand wherever he went was always for quality products.

Other discussion at the meeting centered about plans for the forthcoming meeting to be held at 10 a. m., January 18, at the Davenport hotel, Spokane. A good program has been arranged, and all nurserymen and growers are invited. A group of nurserymen from western Washington are planning to attend. Dr. John Hanley, of the University of Washington arboretum, Seattle, has been appointed chairman of the meetings.

C. W.

CHRISTMAS PARTY.

The annual Christmas party for the friends and families of members of the Superior California Nurserymen's Association was held the evening of December 14 at the Oak Park clubhouse, Sacramento.

The program consisted of community singing around the Christmas tree and the presentation of gifts by Santa Claus, followed by dancing and the serving of refreshments.

Peter F. Cruz, program chairman, announced that over 150 attended and enjoyed the party. Members and guests included all nurserymen from Sacramento and the adjoining area and nurserymen and their families from Santa Rosa, Lodi and the bay area.

Donald C. Wiese, Sec'y.

TRI-COUNTY PARTY.

All nonmember nurserymen in the Tri-County district were invited to the annual Christmas party of the Tri-County chapter of the California Association of Nurserymen, held at Eaton's restaurant, Santa Barbara, December 13. The invitation was well accepted, and fifty member and nonmember nurserymen sat down to dinner.

Immediately following dinner, which consisted of turkey and all the trimmings, President C. Mavro Warren called on Paul Moulder, immediate past state president, to say a

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few words. He stressed the advantages of state association membership, such as professional assistance in the handling of employee-employer relationships pertaining to bonus plans, unionization, etc., and the advisory service, which gives information and assistance in handling complex matters, especially those pertaining to governmental matters. Mr. Moulder pointed out in this regard that the state association office had handled over 1,000 inquiries from small nurserymen in past years, which indicates that the small nurseryman is getting his money's worth. Another service offered by the state association is group compensation insurance. Mr. Moulder stated that the nurserymen's group insurance fund may expect as much as a forty per cent refund from the California state fund this year, which when distributed among the numerous policyholders will more than pay their association dues for the year.

Mr. Moulder listed the following as matters which the state association office is working on for the future: Group liability insurance plan; advertising mat and advisory service; merchandising and display advice; unemployment insurance exemption for nursery employees; more and better test gardens for testing new varieties; an annual production census, and various forms of advertising by the state association office in an attempt to make the buying public conscious of the advisability of making its purchases from association member nurseries.

Howard E. Brown, of the California Polytechnic School, San Luis Obispo, told about the school.

Cowboy songs were rendered by Ted Kallman and Robert Lewis, of Santa Barbara.

Each member was requested to bring a small gift to exchange at the meeting with other members and guests. Bob Kallman and Miss Ruth Davis, of Santa Barbara, were asked to act as Santa Clauses and distribute the gifts. Everyone received a gift, and inasmuch as there were more gifts than members present, it is assumed that some of the members were exceptionally generous and brought more than their shares.

Following the distribution of gifts, Bert Kallman introduced D. D. Krall, manager of the Santa Barbara branch of the Sherwin-Williams Co., who showed two movies in sound and Technicolor dealing with Weed-No-More and Pestroy, Sherwin-Williams products for the control of weeds and insects. Both features were educational as well as entertaining.

An examination of the register showed that the following guests were present: Jack Hawley, of Santa Paula; Ruth Davis, Robert Kallman, D. D. Krall, Jack Horner, Ted Kallman and Robert Lewis, of Santa Barbara; Stanton Gray, Howard E.

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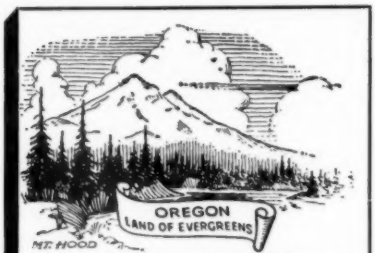

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Brown, Ralph M. Vorhies, Charles Burroughs and William G. Drake, of San Luis Obispo; Mr. and Mrs. Paul Moulder, of Glendale; W. H. Holub and Sam Husbands, of Oxnard, and Mr. and Mrs. Monmonier and Al Bagley, of Ventura.

L. T. Clearwater, Sec'y.

NEW RHODODENDRON FIRM.

John Henny, Jr., Brooks, Ore., and P. H. Brydon, Salem, Ore., have formed a partnership and established the firm of Henny & Brydon, specialists in rhododendrons. The nursery is located about two miles east of Brooks, near Lake Labish, and has an attractive setting amid a natural stand of fir, dogwood and maple. Landscape plans for the property are now under way. The range of glass comprises three houses, which are used exclusively for the propagation of rhododendrons. Additions are being constructed to the lath house. Second-year plants are grown in the open under Skinner sprinkler systems.

Mr. Henny is a popular speaker at garden clubs and other horticultural societies in the Pacific northwest, where his fifteen years of practical experience are of value to fellow gardeners. Mr. Henny is president of the American Rhododendron Society and vice-president of the Oregon Camellia Society. While on a recent trip to England, Mr. Henny purchased plants of the best rhododendron hybrids, which will augment a collection considered one of the finest in America.

Mr. Brydon received his early training with Dobbie & Co., Edinburgh, Scotland, twenty-six years ago. Until he went to the Pacific northwest, he was in charge of the University of California botanical garden, at Berkeley, where there is an excellent collection of rhododendron species and hybrids. He was vice-president of the California Horticultural Society and lecturer in plant propagation in the University of California extension division.

LEWIS J. BUCHER, New Philadelphia, O., has sold his nursery to the Schwarz Nursery, 1202 Fifth street, northwest, and will be located at 267 California street, Bellflower, Cal.

BACK in this country after eighteen months of service as master sergeant with the engineers at Tokyo, Peter D. Conci, formerly connected with Lake Merced Nursery & Florists, Daly City, Cal., has made plans to resume his association with the nursery after his discharge.

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Very sorry no catalog this season. The unusual demand has practically depleted our supply.

	Norway Maple Whips	
1200	9 to 10-ins.	$0.65
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SHADE AND FLOWERING TREES
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GOOD WESTERN-GROWN NURSERY STOCK
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1/4-in. and up, branched	$30.00
No. 1, 3/16 to 1/4-in., branched	25.00
No. 1, 3/16 to 1/4-in., straight	25.00
No. 2, 2/16 to 3/16-in., branched	18.00
No. 2, 2/16 to 3/16-in., straight	18.00
No. 3, about 2/16-in.	12.00
No. 3, 3/16 to 5/16-in., liners	18.00
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PEAR SEEDLINGS

1/4-in. and up, branched	32.00
No. 1, 3/16 to 1/4-in., branched	28.00
No. 1, 3/16 to 1/4-in., straight	25.00
No. 2, 2/16 to 3/16-in., branched	20.00
No. 2, 2/16 to 3/16-in., straight	18.00
No. 3, about 2/16-in.	14.00

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Also cater to small parcel-post orders. Write for prices for spring delivery.

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2,000,000 Gem Everbearing, 2,000,000 Dunlap. Grown in best Iowa soil under ideal conditions. True to name, well rooted. Careful packing. Also Rhubarb, Asparagus and Horse-radish Roots. Can ship any time.

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Per 1000	Nos. 1	2	3
Mixed (Choice)	$25.00	$22.00	$20.00

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Several million in Nos. 4, 5, 6 of Badger Beauty, Corona, Casablanca, Elizabeth the Queen, Francis Irwin, Honor, Beacon, Sel. Picardy, Jules Amott, Maid of Orleans, Margaret Beaton, Rocket, Rosa V. Lima, Rosy Morn, Snow Princess, Silentium, Stoplight, S. Picardy (20 per cent white), Valeria, Wanda. Some of Nos. 1, 2, 3 in most of the varieties. Bulblets of most varieties.

Send me your requirements for quotations.

	Per qt.	Per bu.
Elizabeth the Queen, bulblets	$20.00	$375.00
Purple Supreme, bulblets	20.00	375.00
Stoplight, bulblets	20.00	375.00

Sensational mixture including many new varieties.

	Per 1000
No. 1	$27.00
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No. 3	18.00

Cash with order; or 50 per cent cash, balance C.O.D.

Subject to being unsold.
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White Pine, 2-2, 6 to 10 ins.	80.00
White Pine, 2-3, 20 to 32 ins.	140.00
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Norway Red Pine, 2-1, 5 to 8 ins.	48.00
Norway Red Pine, 2-2, 7 to 12 ins.	75.00
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White Spruce, 2-3, 8 to 12 ins.	100.00
Black Spruce, 2-1, 3 to 7 ins.	45.00
Black Spruce, 2-2, 8 to 12 ins.	80.00
Black Hills Spruce, 2-3, 6 to 10 ins.	80.00
Black Hills Spruce, 2-3, 10 to 14 ins.	120.00
Black Hills Spruce, 2-3, 14 to 18 ins.	140.00
Engelmann's Spruce, 2-2, 4 to 7 ins.	75.00
Balsam Fir, 2-0, 2 to 4 ins.	30.00
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Mugho Pine, XX, 8 to 10 ins.	$0.60	$55.00
Mugho Pine, XX, 10 to 12 ins.	.90	85.00
Colorado Blue Spruce, XX, 12 to 18 ins.	2.00	195.00
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White Spruce, XX, 12 to 18 ins.	.85	80.00
White Spruce, XX, 18 to 24 ins.	1.10	115.00
White Spruce, XX, 24 to 30 ins.	2.50	245.00
Black Hills Spruce, XX, 12 to 18 ins.	.85	80.00
18 to 24 ins.	1.50	145.00
Platte River Juniper, XX, 12 to 18 ins.	.90	85.00
18 to 24 ins.	1.35	130.00
24 to 36 ins.	2.00	195.00
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American Arborvitae, XX, 18 to 24 ins.	.70	65.00
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18 to 36 inches, $25.00 per 100. Samples, $1.00. Carefully collected, dug and extra-well packed.

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Transplanted Evergreen Liners
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White and Norway Spruce, 24 to 36 ins. Bare roots, $35.00 per 100.

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Colo. Blue Spruce, 4-yr. tr., 4 to 8 ins.	5c
Balsam Fir, 4-yr. tr., 4 to 10 ins.	5c
Hemlock transplants, 4 to 8 ins.	8c

Not less than 25 of a kind.
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Varieties: Stayman, Yellow Transparent, Jonathan, Grimes Golden, Early Harvest, Dbl. Red Delicious, Yellow Delicious, Red Rome Beauty, Malden Blush.

GRAPE MYRTLE, Dark Pink, 2 to 3 ft., 25c; 3 to 4 ft., 30c.

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Boxing and baling at cost.
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Heavy 2-yr., No. 1 Carman grapes.

Price:	10	100	1000
2-yr., No. 1	17c	15c	12c
1-yr., No. 1	13c	10c	8c

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Texas Everbearing and Magnolia
1 to 2 ft., 15c; 2 to 3 ft., 20c; 3 to 4 ft., 35c; 4 to 5 ft., 40c.

Pure-strain Elberta, low-price Peach.
Send your want list to
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PLUM AND DAMSON, 11/16-in., $9.00 per 10, $85.00 per 100; 9/16-in., $8.00 per 10, $75.00 per 100; 7/16-in., $6.50 per 10, $60.00 per 100; 2 to 3 ft., $5.00 per 10, $45.00 per 100 in the following varieties: Abundance, Shropshire Damson, Mammoth Golden, Red June, Wickson.

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HARDY GRAFTED NUT TREES.

Crath, Carpathian, English Walnut, Black Walnut, Butternut, Heartnut. Orders for less than 10 not accepted. Price list on request.

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Jap. Persimmon, Pecan, Pear, Chinese Chestnut, Fig, Roses.
Write for low prices on these.
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AMPELOPSIS TRICUSPIDATA (Veitchi) (Boston Ivy)
Available for Immediate Shipment.

	Per 100
2-yr., 18 to 24 inches	$35.00
2-yr., 15 to 18 inches	30.00
2-yr., 12 to 15 inches	25.00
	Per 1000
1-yr. Seedlings, No. 1	$50.00

C. R. BURR & CO.
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PEONIES.

	Per 10	Per 100	Per 1000
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Baroness Schroeder	7.50	60.00	500.00
Candidissima	4.00	35.00	300.00
Chestine Gowdy	10.00	85.00	600.00
Cherry Hill	7.50	60.00	.....
Delicatissima (Fl. Tr.)	3.00	27.00	250.00
Edulis Superba	3.00	27.00	250.00
Festiva Maxima	3.00	27.00	250.00
Floral Treasure	3.00	27.00	250.00
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Karl Rosefield	7.50	60.00	500.00
Lady Lenora Bramwell	3.00	27.00	250.00
Le Cygne	20.00	150.00	.....
L'Eclatante	7.50	60.00	500.00
Mme. Jules Dessert	10.00	125.00	.....
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Officinalis Rubra	6.00	55.00	.....
Reine Hortense	6.00	55.00	500.00
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Queen Victoria	3.00	27.00	250.00
Peonies according to color:			
White and Pink	3.00	25.00	230.00
Red	3.50	30.00	250.00

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30,000 DAHLIA ROOTS.

We offer strong divisions, best cut-flower varieties that stand hot, dry weather. They produce largest and most blooms for you.

	Each
5000 Heart of Milwaukee, dec., golden bronze	25c
5000 Kentucky Sun, dec., golden yellow	25c
5000 City of Wellston, dec., wine-red	25c
5000 Rose Glory, dec., deep rose-pink	20c
1000 Frances LaRocco, dec., canary-yel.	20c
500 Ave Maria, dec., orchid-lavender	30c
5000 Florists' mix., all colors and types	10c
1000 Amber Queen, pompon, amber and apricot	15c

Special: 12 each above, 96 roots for only $19.98.

Rush order today. Terms: Cash with order, please.

PAYNE DAHLIA FARM
Rt. 5, Kansas City, 3, Kan.

New Crop Seed.
THE DELPHINIUM OF TOMORROW.
LYONDEL GIANT HYBRIDS.

Massive Spikes, Stately, Majestic, Colorful. A new strain especially selected for its large-size flowers and wide range of beautiful colors. Doubles, semidoubles, singles. Extremely hardy. Mixed only.

Seeds from plants grown from originator's seeds.

$6.00 per ¼ oz., $11.00 per ½ oz., $20.00 per oz.

CORLISS BROS., INC., NURSERIES
Reynard St. Gloucester, Mass.

HARDY FIELD-GROWN PERENNIALS.

Strong divisions, priced per hundred.

Hardy Asters, pink or purple	$10.00
Helianthus, Loddon Gold hardy sunflower	5.00
Hardy Chrysanthemums, 10 named var.	3.00
Tritoma Pfitzeri, orange (Red-hot Poker)	10.00
Hardy Ageratum (Eup. Coel.), blue-mist flower	3.00

Rush order today; shipment later. Terms: Cash, please.

PAYNE DAHLIA FARM
Rt. 5 Kansas City 3, Kan.

OXALIS.

300,000 Oxalis Boxieana, pink, ⅜ to ½-in., $3.00 per 1000. 100,000 or more, 20 per cent discount.

BLEEDING HEARTS.

Dicentra Spectabilis

100 roots, 3 to 5 eyes	$40.00
50 roots, 3 to 5 eyes	22.50
25 roots, 3 to 5 eyes	12.50

Ready for immediate or later shipment.

JOHN M. ELZINGA, Benton Harbor, Mich.

PRIMULA POLYANTHA. Western Rainbow Giants. Seedlings sold out until November. 1 X plants, $12.50 per 100, will bloom heavily next spring. Seeds, Tr. packet., $1., ⅛ oz., $2. Also seeds, pulverulenta, denticulata, florindae, auricula. Trade pkt., $1.
WESTERN HORTICULTURAL SUPPLY
3629 S. E. 67th Ave., Portland 6, Ore.

BLEEDING HEARTS—
DICENTRA SPECTABILIS.

Strong, select, well grown roots.

3 to 5-eye clumps	30c
5 to 8-eye clumps	40c

Pot now for Easter blooming.

CASHAR W. EVANS, Selbyville, Del.

Esther Read Shasta Daisies, Michaelmas Daisy Beechwood Challenger, Helenium Moerheimi, $10.00 per 100. Primroses, $15.00 per 100.
PORTLAND AVE. NURSERY
1409 E. 59th St. Tacoma, Wash.

NEED PERENNIALS?

Send us your want list. We may be able to assist you.

FLEMING'S FLOWER FIELDS
3100 Leighton Ave. Lincoln 3, Neb.

BLEEDING HEARTS

DICENTRA SPECTABILIS, 3 to 5 eyes, $40.00 per 100. DICENTRA EXIMIA, 3 to 5 eyes, $20.00 per 100. Cash with order.
J. HENDRIKS, Grower, Portage, Mich.

SEEDS

CALIFORNIA PEACH SEEDS

California Lovell Peach Pits from 1946 crop. Well cared for in drying. In bags of about 80 lbs. Each $3.00 per bushel. In lots of ten and up, $2.50 per bushel, F.O.B. Rogers, Ark.
BENTON COUNTY NURSERY CO., INC.
Rogers, Ark.

PEACH PITS, Southern-collected, high germination $3.00 bu.; Peach seedlings for budding or grafting $25.00 per 1000, $3.00 per 100. Boxwoods, Shrubs, Fruit trees. Cash with order. RIVERDALE NURSERIES, Riverdale, Ga.

BERBERIS DARWINI. Evergreen. Hardy north to New Jersey and to British Columbia on west coast. New crop seeds. D. B. Trade packet, 50c; ¼ lb., $1.50; pound, $4.50.
WESTERN HORTICULTURAL SUPPLY
3629 S. E. 67th Ave., Portland 6, Ore.

REGAL LILY BULBS AND SEEDS.

MRS. ROY WILKINS

Newburg, Ore.

SHRUBS and TREES

ROSEBUSHES.
Surplus list.

These roses are strong, healthy 2-year-old, field-grown bushes and have been sulphur dusted all during the growing season and are the finest we have ever offered. Sold in multiples of 10 of variety. Price on all varieties, $35.00 per 100, F.O.B. Tyler, Texas. 50 per cent cash with order, balance C.O.D. Packing at cost.

Better hurry, these won't last long.

CLIMBERS.

900 Talisman, red and yellow
200 Rouge Mallerin, dark red
1800 Paul's Scarlet, showy red
400 Red Radiance, red
500 Caledonia, pure white
700 Mrs. Pierre S. duPont, deep yellow
400 Etoile de Hollande, dark red
300 Pink Radiance, pink
200 K. A. Viktoria, cream white

POLYANTHA.

600 Ideal, red
600 Golden Salmon, salmon-red

TWO-TONE.

2000 Talisman, red and yellow
1400 President Hoover, yellow and red

YELLOW.

2500 Golden Charm, yellow Talisman
400 Golden Dawn, deep yellow
300 Mrs. Pierre S. duPont, rich yellow
100 Soeur Therese, one of the best
300 Luxembourg, copper-yellow
2000 Lady Hillingdon, copper-yellow

WHITE.

400 White American Beauty, pure white
600 Caledonia, clear white
1500 K. A. Viktoria, cream white
200 White Radiance, white

RED.

4000 Radiance, red
1500 Etoile de Hollande, bright red
600 Syracuse, vermilion
900 Rouge Mallerin, dark red
2000 Poinsettia, one of the best
500 Grenoble, deep red
2500 Ami Quinard, the black rose
200 Francis Scott Key, large, very double
200 Charles K. Douglas, very large red
400 Sensation, scarlet prolific
1100 McGredy's Scarlet, crimson

PINK.

2500 Editor McFarland, brilliant pink
400 Briarcliff, sport of Columbia
400 Columbia, rose-pink
3000 Pink Radiance, soft even pink
600 Mrs. Chas. Bell, shell pink
500 Shell Pink Radiance, light pink

MARTIN'S ROSE NURSERY
P. O. Box 155 (Route 1) Arp, Texas

ROSEBUSHES.

No. 1, heavy, 45c; No. 1½, 35c; No. 2, 25c.

Strong on Red and Pink Radiance, Mrs. Chas. Bell, Etoile de Hollande, Poinsettia, Editor McFarland, Ami Quinard, Golden Charm, Golden Dawn.

Other varieties: Christopher Stone, Talisman, Pres. Hoover, K. A. Viktoria, Briarcliff, Mrs. P. S. duPont, Rouge Mallerin, Condesa de Sastago, Soeur Therese, E. G. Hill, Dame Edith Helen, Frau Karl Druschki, Pink Dawn.

CLIMBING ROSES.

Dr. Van Fleet, Gardenia, Mary Wallace, Editor McFarland, Ami Quinard, Am. Beauty, Red Radiance, Pink Radiance, Caledonia, Roslyn.

POLYANTHA ROSES.

Chatillon, Golden Salmon, Ideal, Red Grootendorst, Pink Grootendorst.

Write for prices on Crape Myrtle, all colors.

G. A. McKEE NURSERY
Box 1567 Jacksonville, Texas

PRIVET, CALIFORNIA—1-year Heavily Branched, Strong Stock.

	Per 1000
12 to 18 ins.	$40.00
18 to 24 ins.	50.00
24 to 30 ins.	60.00

Write for quotations on quantities. No shipping.

EVERGREEN ACRES
U. S. Route 13, McDonough, Del.
P. O. Middletown, Del.

HARDWOOD CUTTINGS.

We offer the following varieties for delivery after December 15. We cut to 6¾ inches, using well hardened wood from our own cutting blocks. Tied in hundreds.

	Per 1000
Cornus sibirica	$5.00
Cornus lutea	5.00
Cornus paniculata	5.00
Cornus amomum	5.00
Diervilla Trifida	5.00
Elder, Cut-leaf	5.00
Forsythia intermedia	4.00
Forsythia intermedia spectabilis	4.00
*Forsythia, Dwarf	5.00
Lonicera tatarica rosea	5.00
Lonicera bella rosea	4.00
Lonicera bella albida	4.00
Lonicera morrowi	4.00
Lonicera maacki	4.00
*Lonicera zabeli	6.00
Hydrangea A.G.	6.00
Hydrangea P.G.	6.00
Lilac rothomagensis	5.00
Philadelphus grandiflorus	4.00
*Philadelphus virginalis	7.00
Physocarpus opulifolius aureus	4.00
Physocarpus opulifolius nanus	5.00
Privet, Amur North	4.00
Privet, Ibota	3.00
Privet, Regel's true (hardy strain)	4.00
*Privet Lodense	6.00
Sorbaria sorbifolia	4.00
Spiraea billiardi, pink	4.00
Spiraea froebeli	4.00
Spiraea, Korean (trichocarpa)	4.00
Spiraea thunbergi	4.00
Spiraea vanhouttei	4.00
Viburnum dentatum	5.00
Poplar, Lombardy	5.00
Willow, Niobe Weeping	4.00
Willow, Pussy	5.00
Willow, Golden	4.00

*Limited to 1,000 with other varieties.

Packed free. Cash with order, please.
THE SCOTCH GROVE NURSERY
Scotch Grove, Ia.

ROSES.

Don't miss this opportunity to merchandise in small Cloversets, to sell novelty combinations in larger pots, to use as specimens in gardens, or for a really different low hedge. The varieties are favorites, all princess' in the Baby line. XX's and 1's, they are in perfect storage, ripe and green, budded on Multiflora cuttings, standing on sturdy root systems, they will really get out and grow.

TRIOMPHE ORLEANAIS.
Bright cherry-red.
MAGNA CHARTA.
Bright carmine H.P.
GOLDEN SALMON.
Bright red-orange.
IDEAL.
Fine dark-red.
Prices for the above:
XX grade, 42c ea.; No. 1, $37½c ea.
THE JOSEPH F. MARTIN CO.
Painesville, O.

PRIVET, CALIFORNIA, 1-year

	Per 100	Per 1000
1 to 2 branches, well rooted		
15,000 15 to 24 ins.	$3.50	$25.00

FORSYTHIA SPECTABILIS, 1-year.

2 branches, well rooted		
3000 18 to 24 ins.	5.00	35.00

VAN HOF BROS. NURSERIES
View Avenue Middletown, R. I.

750,000 AMUR RIVER NORTH PRIVET CUTTINGS, wood cut from proven mother blocks; hence are genuine. All cuttings hand sorted; must be correct. $2.50 per 1000; lots of 5000 or more, $2.25 per 1000. Cash with order, packing free.

ALTA VISTA NURSERIES
Brady Street Road Davenport, Ia.

ABELIA GRANDIFLORA.

Good rooted plants from 2-year beds, $6.00 per 100, $50.00 per 1000. These plants run from 8 to 12 inches or more and are grown in open beds.

MOUNTVILLE NURSERIES
Mountville, Ga.

PIN OAK LINERS.

Select Quercus palustris seedlings. 9 to 12 ins., 2/16 to 3/16-in. caliper. $25.00 per 1000, F.O.B. Elsberry, Mo.
FORREST KEELING NURSERY,
Elsberry, Mo.

BARBERRY THUNBERGI, 3 to 6-in. seedlings, light grade, $1.25 per 100. $10.00 per 1000. Cash, please.

NYVELDT'S NURSERY
313 Willetts Ave. New London, Conn.

8-in. hardwood cuttings, $4.00 per 1000.
Northwest Poplar, Norway Poplar,
Golden Willow and Ural Willow.
PEQUOT NURSERIES
Pequot Lakes, Minn.

CORNUS FLORIDA RUBRA, 5 to 6 ft., B&B, $3.50; 6 to 7 ft., B&B, $4.00; 7 to 8 ft., B&B, $5.00.

WAYNESBORO NURSERIES
Waynesboro, Va.

CHIONANTHUS VIRGINICUS (White Fringe tree). 4 to 5 ft., $7.50 per 10, $65.00 per 100; 5 to 6 ft., $8.00 per 10, $75.00 per 100.

WAYNESBORO NURSERIES
Waynesboro, Va.

SHRUBS and TREES—Continued

COMMON LILAC HEDGING, transplanted, 6 to 12 ins., $6.50 per 100; 12 to 18 ins., $8.00 per 100.
TREADWELL NURSERY CO.
Great Falls, Mont.

HONEYSUCKLE HEDGING, transplanted, fine stock, 12 to 18 ins., $6.50 per 100; 18 to 24 ins., $8.00 per 100.
TREADWELL NURSERY CO.
Great Falls, Mont.

CARAGANA HEDGING, extra-nice, heavy caliper, 18 to 24 ins., $4.50 per 100; 2 to 3 ft., $5.50 per 100. Shrub stock, 3 ft., 20c each.
TREADWELL NURSERY CO.
Great Falls, Mont.

CHINESE ELMS, 1000.

	Per 100	Per 1000
8 to 12 ft.	$40.00	$250.00

As they stand; buyer digs them.
PAGE'S GREENHOUSES, Staunton, Ill.

VEGETABLE ROOTS

ASPARAGUS ROOTS—Giant 3-yr. Mary Washington Asparagus roots, tied 50 to bundle, none better anywhere, superb roots, $29.00 per 1000. Ours is the lowest price on 3-yr. roots. Tied in bundles, 2 and 1-yr. Washington Asparagus roots; 2-yr., $16.00 per 1000; 1-yr., $12.00 per 1000. Also Rhubarb, Horse-radish roots. WARREN SHINN, Woodbury, N. J. Nurseryman for 40 years.

CHIVES—Thousands of cultivated Chives for sale; nice clumps; price quoted, very low.
WARREN SHINN, Woodbury, N. J.
Nurseryman for 40 years.

VINES

CONCORD AND FREDONIA GRAPE CUTTINGS, carefully made, tied with wire, 100 to bundle, $4.00 per 1000. Strong Concord and Fredonia vines, 1-yr., No. 1, $7.00 per 100; $65.00 per 1000. Extra-heavy rooted Boysenberry, $40.00 per 1000; Thornless, $50.00 per 1000. All F.O.B. here.
IDEAL FRUIT FARM
Stilwell, Okla.

MISCELLANEOUS

CALIFORNIA BLACK WALNUT SEEDS. $5.00 per bushel; 10 bushels, $45.00.
STRAWBERRY RHUBARB.
Large divisions, $9.00 per 100.
LEMONS.
Eureka and Meyer Dwarf Everbearing.

	Per 100
Rooted cuttings	$15.00
1-yr. transplants	35.00
2-yr. transplants	60.00

Packing free if cash with order.
GRIMSHAW NURSERY, Hayward, Calif.

FOR APRIL DELIVERY

	Per 100	Per 1000
3000 American Arborvitae, 1 to 1½ ft., tr., X	$17.00	$130.00
430 American Beech, 15 to 18 ins., X	9.00	65.00
1600 Blackcap Raspberry, 2 to 3-yr.	6.75	60.00

Cash with order please. Free packing; shipped prepaid.
WHERRY'S NURSERIES, St. Marys, W. Va.

We have a surplus of first-class apples, 5 to 6 ft., leading varieties. Also Lombardy Poplars, 5 to 6 ft. and 6 to 7 ft. 12 to 18-inch Black Walnut Seedlings, Cumberland Raspberries, Eldorado and Alfred Blackberries, Flowering Quince, Phlox, Asters, Glads, Tuberoses, Strawberries and Asparagus in large lots. Write:
WELCH NURSERY, Shenandoah, Ia.

25,000 Shrubs; 100,000 Cuttings; 10,000 lbs. Kentucky Coffee Beans, 25c per lb.; Sycamore Platinus, 40c; Ailanthus, 50c; Catalpa, 80c.
SCHROEDER NURSERY CO.
Granite City, Ill.

Concord Grapevines, No. 1, $7.00 per 100. Chinese Lombardy Poplar, 5 to 7 ft., 25c ea. Lombardy Poplar, 6 to 8 ft., 40c ea. California Privet, 15 to 18 ins., $3.50 per 100.
PONZER NURSERY, Rolla, Mo.

SPHAGNUM MOSS. Clean good moss, baled in either wire or burlap. Delivered if possible. Write for prices. Also Bluebell and English Daisy Roots.
CAROL NELSON, Necedah, Wis.

Surplus Stock
can be easily and quickly turned into
Cash
listing it in the
American Nurseryman Classified Ads.

DECORATIVES

White Pine Cones, 60c per bushel; Norway Pine Cones, 65c per bushel; Sumac Berries, $4.00 per 100 bunches. Cones are packed in 2-bu. sacks at 10c additional for sacks. Can pack in boxes.
AYRES' EVERGREEN NURSERY.
Aitkin, Minn.

SUPPLIES

A. F. S. "EASI-OFF" WOOD PLANT BANDS

Size in ins.	Weight per 1000	Per 1000
1¾x1¾x2½,	12 lbs.	$3.25
2x2x2½,	15 lbs.	3.60
2½x2½x3,	20 lbs.	4.20
3x3x3,	21 lbs.	4.60
3x3x4,	32 lbs.	5.30
4x4x4,	40 lbs.	6.30

Packed 1000 to the carton.
We do not break the cartons.
LIGHT WOOD FLATS.
For handling and shipping our 1¾-inch and 2-inch sizes of Plant Bands.

	Per 100
M-370; holds twelve 1¾-inch Bands	$2.75
M-390; holds twelve 3-inch Bands	3.30
M-392; holds twelve 2½-inch Bands	3.75
M-393; holds six 3-inch Bands	3.55
M-394; holds six 4-inch Bands	3.95

Packed 100 to the carton. We do not break cartons. Shipped promptly from the factory in Michigan.
AMERICAN FLORIST SUPPLY CO.
1335 W. Randolph St. Chicago 7, Ill.

KNOCK-DOWN FLATS.
Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

16x12x2¾	$16.25 per 100
16x14x3¾	20.50 per 100
20x14x2¾	20.00 per 100
20x14x3¾	23.00 per 100
22¾x15x2¾	22.00 per 100
22¾x15x3¾	25.00 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.
We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.
HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

FINE SCREENED PEAT
Acid pH 4-5. Some Nitrogen.
Our Peat is excellent for Gardenias, Camelias, Azaleas and Hydrangeas, also for mixing with soil for potting, seed flats and mulching. Order early. Packed in 3-bu. bags, 5 to 24 bags, $1.00 each; 25 to 49 bags, 95c each; 50 to 100 bags, 90c each. Bulk carload, about 60 yards or 600 bags, $275.00 per car. We ship same day order received. Cash, please.
HAASE BROS.
116 S. Jefferson St. Peoria, Ill.

BAMBOO CANE STAKES.
Special sizes supplied on request.
DYED GREEN, pencil thickness.

	Contents Per bale	Price Per 1000
1½ ft.	1000	$ 5.00
2 ft.	1000	6.50
3 ft.	1000	9.00
3½ ft.	1000	10.25
4 ft.	1000	12.50
5 ft.	1000	15.50

NURSERYMEN'S EXCHANGE
938 Howard St. San Francisco 3, Calif.

TO THE TRADE.
We specialize in putting up Apple, Pear and Quince grafts for the trade. We also have a few thousand one-year Peach, one and two-year Apple, leading varieties.
In Shade Trees, can supply 2000 each Chinese Elm and American Ash from 1 to 3½ ins. in caliper. Also 200, 2-year, 5-N-1 Apple and 5-N-1 Peach.
WANTED: Lining-out Evergreens, Grafts and Shrubs.
EGYPTIAN NURSERY & LANDSCAPE CO.
Farina, Ill.

IMPORTED CANE STAKES
Check your needs and order now.

Size	Per 1000
15 ins.	$3.60
18 ins.	4.10
24 ins.	5.40
30 ins.	6.90
36 ins.	8.30
48 ins.	10.75

2000 per bundle
AMERICAN BULB CO.
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PROFIT WITH PERF-O-RAIN.
Rain when you want it—low pressure—rectangular strip watered—No overlap—No sprinkler heads or other gadgets—Portable lightweight pipe—Long life. Write for free folder. W. R. AMES COMPANY OF FLORIDA, 3905 E. Broadway, Tampa 5, Florida, or W. R. AMES COMPANY, 150 Hooper St., San Francisco 7, Calif.

HYPER-HUMUS, a cultivated, fertilized, reed peat, highly endorsed by many famous lawns, plantings and nurserymen, will be represented at the Ohio convention by Mr. N. B. Parmly and by Helen and Wilbur Yearsley at the Illinois and Michigan conventions. See them for complete information on a profitable and highly satisfactory product, HYPER-HUMUS.

ELECTRIC HOT BED UNITS.
Equipped with G. E. lead cable. Also heavy-duty Red Resinite cable. Thermostat-controlled bottom heat. Finest equipment made. Immediate deliveries. Write.
THE RANSOM SEED CO.
San Gabriel, Calif.

SOIL HEATING EQUIPMENT, designed by a grower and engineer, for commercial propagation. Cable, soil thermostat and pilot lamp to heat 20 sq. ft., $11.40; 40 sq. ft. $14.25; 60 sq. ft., $17.10; 80 sq. ft., $19.95, and 150 sq. ft., $28.05. F.O.B. Seattle.
L. N. ROBERSON CO.
1539 E. 103rd St. Seattle 55, Wash.

FLATS
25¼x13¼x1⅝ ins., inside measure. Bottoms and sides, ¾ in. thick. Ends, 1¼ ins. thick; metal banded. All white pine. Assembled. Bargain at 15c, F.O.B. Elgin.
RINEHIMER BROS.
Elgin, Ill.

SOIL HEATING CABLE by GRO-QUICK
40 ft., 200 W. Cable for 20 sq. ft. $1.60
80 ft., 400 W. Cable for 40 sq. ft. 3.20
Air Thermo, with pilot light 3.75
Soil Thermo, with pilot light 9.50
Immediate del. See adv. this issue.
GRO-QUICK, 366 W. Huron St., Chicago 10.

PRINTING
Letterheads, billheads, statements, cards, envelopes, tags, blotters, folders, catalogs, samples. Send copy for estimate.
J. GARLAND HILL, Dept. A, Seaford, Del.

GIBRALTER Frost Covers pay for themselves. Economical, long-lasting, ideal for windbreaks, 6 ft. wide; 50 ft., $13.75; 100 ft., $26.00; 150 ft., $39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.

BUDDING STRIPS
Save money! Growers' special grade. Finest natural rubber. As low as 32c per pound. Samples; literature free.
THE M. CONLEY CO., Canton 1, Ohio

If you don't find what you want
try a Classified Ad
under the heading "Wanted."
It's cheaper than mailing out a want list.

WANTED

Have access to several hundred acres of good land for growing nursery stock. We are anxious to consider doing some contract growing. We have the land, the labor and the energy. If interested, write:
THE CHALIN LEWIS NURSERY
Piggott, Ark.

WANTED
Chionanthus Virginicus Seedlings.
2-yr. preferred. Quote, giving number, size, age and price.
W. B. CLARKE & CO.
P. O. Box 343 San Jose, Calif.

WANTED—Car or truckloads of cash-and-carry ornamental evergreens, B&B. Also field-grown lining-out evergreens, and hardy lily bulbs.
The Evergreen Nurseries, Lowell, Ind.

WANTED.
Strawflowers (Helichrysum), also Statice, etc.
MRS. ANN VOUGH
Route 5 Greensburg, Pa.

GUY YERKES RETIRES.

Guy E. Yerkes, who began work for the United States Department of Agriculture in 1918 as a plant propagator and spent his scientific career in the improvement of fruit trees and ornamental plants, retired December 31, 1946. He did much to obtain apple stocks better suited for commercial fruit and plant production in this country. A large share of apple stocks of American origin recognized by horticulturists are from the ones he developed. Mr. Yerkes developed an entirely new method of vegetative propagation for apple and pear stocks.

He is an authority on the propagation of ornamentals and created an understock for roses that was rapidly adopted by rose propagators to replace those they had been using.

For the past six years he has been at work on breeding new azaleas, and twenty-one of them are now on trial with American nurserymen.

Born at Stuart, Ia., in 1880, Mr.

Own a
SOIL TEST LABORATORY
Of Your Own

$22.50

SUDBURY PORTABLE SOIL TEST LABORATORY express paid

The most valuable piece of equipment you can own, giving you the soil information that you need for efficient production. Widely used by estates, professional growers and government field stations. Will last almost a lifetime with refills. Comes in instrument type chest. No chemistry knowledge required. Complete with instructions and helpful chart. SEND NO MONEY. Order C.O.D. $22.50, plus express charges (or send $22.50 and we pay express). Money back guarantee. Immediate delivery.

Dealers Write for Special Offer.

SUDBURY SOIL TEST LABORATORY
Box 147 So. Sudbury, Mass.

SAWS
Push stroke, 24-inch 5-point
Pull stroke, 18-inch, pistol grip handle
Pull stroke, 24-inch, fast cutter
Pull stroke, 16-inch, pole saw blade
Extra handles for above and Speed Saws (blank)

LEATHER SCABBARDS
For 24 to 26-inch curved pull saws

LEATHER HI-TOPS
E widths only, 16-inch, steel hooks

PRUNER HEADS

KARL KUEMMERLING, INC., ARBORISTS
1021 Benkert Bldg., Canton 2, Ohio

ZIP-STAY LABELS
MARKHAM'S OHIO NURSERY
ELYRIA, OHIO
Advertising, plant name, color-banded and plain labels. Write for price list.
MARKHAM'S OHIO NURSERY, Elyria, Ohio

ALLEN'S "FERTO-POTS"
Grow better vegetables, flowers, corms. Start in flats, then plant, pot and all. **PLANT EATS POT.**

	Box of 100	Box of 250
2½-inch pots	$2.75	$5.00
3-inch pots	3.00	5.50

Write for literature and prices on our full line of Agr. Chemicals. Dealers wanted.
ALLEN CO., Pittstown, N. J.

RUBBER Products
KATFISH BRAND
AMERICA'S FINEST
Rubber Bands, Aprons, Budding Strips, Clothing, Spray Bulbs, Kneeling Pads, Footwear, Gloves, Sponge Rubber, Belts, Hose
GET OUR CATALOG AND PRICE SHEET
BROADWAY RUBBER MFG. CO., LOUISVILLE 2, KY.

Pronouncing Dictionary
of Plant Names and Botanical Terms
64 pages, 3000 names, **25c** per copy
AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

Yerkes graduated from Kansas State Agricultural College in 1906. He lives with his wife at 20 Dresden street, Kensington, Md.

COVER ILLUSTRATION.

Buxus Microphylla Koreana.

Buxus microphylla koreana, the Korean littleleaf box, was first brought to this country and established at the Arnold Arboretum in 1919. From that time on, its popularity increased in regions which were considered too cold to grow the common box.

The Korean box grows to a height of about two feet and differs from the common box, Buxus sempervirens, by its smaller, obovate leaves and its looser habit of growth. The leaves on the Korean littleleaf box are not much more than half the size of those of the common box and are broadest above the middle, while those of the common box are broadest below the middle. The leaves of the Korean littleleaf box do not have the rich, dark green color of those of the common box. They are light green during the growing season and take on somewhat of a brownish cast during the winter. The stems are not so stiff, and the plant has a much looser, airier appearance. It is subject to considerable pulling apart in heavy snows. Its outstanding characteristic is its hardiness, since it is less subject to winter injury than most of the varieties of Buxus sempervirens.

The Korean box is not particular as to soil type, but a good rich soil, retentive of moisture, will produce the most attractive foliage and plant. It is subject to the same pests as the common box, of which the box leaf miner is probably the most serious. This pest can now be controlled readily by the use of DDT.

In regions where the common box or some of its varieties are hardy, they will be used in preference to the Korean littleleaf box. The Korean littleleaf box will find its use where hardiness is a factor and where an airy boxlike type of plant is desired. It can be used in foundation plantings, combining with other broadleaved and narrow-leaved evergreens somewhat better than most of the common box varieties. L. C. C.

WILLIAM A. MOE, formerly with the forestry school and nursery, Bottineau, N. D., will continue his landscape work in addition to operating a florists' shop he has opened at Grafton, N. D.

Barco-ALLIGATOR PRUNING SHEARS.
You'll like them so well you'll tell your friends about them...

Everybody likes them—and no wonder! They cut quick and sharp. They make work easy. Strong and durable. Long, narrow, "easy feel" hard grip for hard-to-get-at-places. Safe: No pinched hands while using; hidden springs. Easy operating safety lock keeps closed when not in use. Steel blade holders; lock nut keeps blades in line; no spreading. Cutting blade, hardened, tempered, leaves perfect cut. Light weight (only 14 ounces).

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CLEVELAND 3, OHIO

SALES OFFICES:
WESTERN RESERVE BLDG., CLEVELAND 13, O.

Fruits for Kansas Topic at Wichita

With a registration of only fifty-eight, including several nurserymen, the Kansas State Horticultural Society held its eightieth annual meeting at the Hotel Lassen, Wichita, December 12 and 13. The program was largely devoted to the commercial aspects of fruit and nut culture.

Prof. G. A. Filinger, Kansas State College, presented the latest developments in the freezing of fruits and vegetables. New developments in small fruit culture were the subject of a talk by Prof. J. E. Vaile, University of Arkansas. A soil that is nearly neutral, or only slightly alkaline, and contains a generous supply of organic matter, according to Professor Vaile, is best for small fruits with the exception of blueberries, which require an acid soil. There is a widespread belief that heavy fertilization lowers the quality of small fruits, but there is no evidence to support this view unless the applications are so great as to become toxic.

Maximum crops of strawberries depend upon the optimum stand of plants. For Arkansas this is eight to ten crowns per square foot, but might be less in some other strawberry sections. The mulching of strawberries will help to preserve moisture, keep down weeds, prevent fruit bud injury and result in cleaner fruit. Experiments in Arkansas have shown that mulching may increase strawberry yield as much as thirty to thirty-five crates per acre.

Professor Vaile warned against the removal of mulch from brambles because they have shallow roots and might dry out. It is better to add more mulch from time to time.

A comparatively new bramble fruit that has proved successful in Arkansas is variously known as Lavaca berry, rossberry and improved boysenberry. It is more like the youngberry than any other fruit. Because it is soft it is adapted only to local markets, but it is excellent for freezing. The northern limits of its hardiness are not known. Professor Vaile stated that frozen bramble fruits are far superior in quality to canned.

Dr. William F. Pickett, Kansas State College, read excerpts from a survey of the results obtained from new orchard sprays in many sections of the country during 1946. One result that seemed to be reported consistently was that DDT is effective against codling moth. Many reports emphasized the fact that thorough spraying is still necessary no matter what the material used.

The possibilities of producing pecans commercially in Kansas were discussed by Prof. Frank B. Cross, Oklahoma A. and M. College. Deep, fertile, well drained soil is essential for best results. The larger the nut the more time required for it to mature; therefore, Professor Cross recommended planting the smaller nuts, including Indiana, Niblick, Green River, Busseron and Major. Since pecans when mature are very large trees they should be planted far apart with fillers such as apples in between. In the opinion of Professor Cross, the commercial culture of seedling pecans is worth trying wherever pecans are native.

Stanley Johnston, superintendent of the Michigan experiment station at South Haven, Mich., a leading authority on peaches, discussed new varieties of peaches and new practices in peach culture.

A recent survey in Michigan shows a marked change in varieties used for commercial planting. Although Elberta still leads, accounting for thirty-five per cent of Michigan's production, the much newer Halehaven is a close second with a record of twenty-two per cent. The greatest increase in commercial planting is in Halehaven, with Red Haven close upon its heels. J. H. Hale is going out of the picture fast, and so

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: $2.50 per inch, each insertion. **Liners: 20c** line; minimum order **$1.00**

HELP WANTED

Working foreman for a Minneapolis landscape firm. One who is familiar with landscape material, can handle small crews and do planting, pruning, lawn and general landscape work from landscape plans. Sales ability an asset. Must be energetic and thorough. Permanent and steady year-around work. Also can use 6 experienced helpers. Give age, experience, reference, family and minimum pay required.

HALLA NURSERY
5124-30 Avenue S. Minneapolis, Minn.

FOR SALE

Houser Nursery, Toledo, Ohio

Approximately 12,000 trees, 3,000 salable each year. 2 acres owned, 2 acres under lease; 4-room modern bungalow; tractor and tools included in sale price.

For information, write or call
THE THEO. SCHMITT CO.
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SITUATION WANTED — Nurseryman, 38, married, experienced grower, salesman, landscaper, college graduate, desires permanent position with eastern retail nursery. Address Box 470, care of American Nurseryman.

FOR SALE—Evergreen Nursery, well located, just 15 minutes from downtown Toledo. 3,700 of all the better varieties of evergreens, from 1 to 8 years old, 800 now ready for sale. Three acres of fine black loam, excellent for balling. Also a beautifully-landscaped home, 5 rooms and bath, utility room, and attached garage, all in fine condition. N. R. HANSEN REALTY CO., 1027 Broadway, Toledo, Ohio. Phone: Adams 3878.

HELP WANTED

Large wholesale nursery concern in middle west is in need of experienced mail-order nurseryman. Must know plant materials, mail-order sales, and have a good education and personality. Excellent opportunity for right man.

Address Box 473, care of American Nurseryman.

HELP WANTED

Nursery Manager with general nursery production background and sales ability. Percentage in profits and good salary. Location Richmond, Va. Give details of training, experience, age, references, and when available.

Address Secretary, P. O. Box 6-D, Richmond, Va.

HELP WANTED

Propagator-superintendent for 34-acre nursery in Denver area to take charge of growing and on-nursery operations. State age, experience and salary expected in first letter.

ROBERTS NURSERIES, INC.
Box 192 Littleton, Colo.

FOR SALE—Established nursery, 30 miles from center of Philadelphia, about 5 acres young salable stock, more than 800-ft. frontage on cement highway, 8½ acres in tract; doing good business; wonderful opportunity to increase business; large barn, tool shed, no living quarters; $11,500.00 stock at inventory. Wish to retire. WALDO MILLER, 402 Walnut St., Spring City, Pa.

For your gardening customers **2 WORK-SAVING, HIGH-PROFIT ITEMS BY THE MAKERS OF VIGORO!**

End o Pest

All the protection most gardens need from chewing insects, sucking insects and fungus diseases!

Few home gardeners know one insect or fungus disease from another. They aren't as expert as you. To help them Swift offers End o Pest. For use on edible fruits and vegetables, also flowers, trees and shrubs, economical End o Pest will sell, for it is made and backed by the makers of Vigoro. Display and sell it with Vigoro. Make two sales, two profits from each customer. Available in handy dust gun, cartridge refills, sifter top package and large economy sizes. Order End o Pest today!

AND

FOR WEED-FREE LAWNS

End o Weed

New, improved weed-killer dooms weeds to certain death . . . roots and all!

Now, weeding need no longer be a trying, back-breaking job for your customers. The makers of Vigoro present End o Weed, a product that destroys over 50 different weeds with one application. Eight ounces treat 2,000 square feet of lawn area. Mention this remarkable new product to your customers. Display End o Weed with Vigoro. Make another sale and additional profit for yourself. Available in all popular sizes. Order End o Weed today.

SWIFT & COMPANY

Plant Food Division, U. S. Yards, Chicago 9, Ill.

is South Haven. Golden Jubilee, while of high quality, is too soft to ship.

Mr. Johnston believes that Red Haven has the best flesh characteristics of any commercial peach ever introduced. Its chief fault is that it is too small. This can be partially overcome by cultural methods. One of the best of the newer peaches is Fairhaven. It is a golden yellow blushed red and ripens one week earlier than Halehaven.

Officers elected for the ensuing year are: President, Emmett Blood, Wichita; vice-president, Judge C. W. Ryan, Wathena; treasurer, H. E. Neufeld, Burrton; secretary, George W. Kinkead, Topeka. J. J.

EUGENE MAY RETIRES.

Eugene May, Jr., has retired from the United States Department of Agriculture, where he started work nearly forty years ago as a gardener. He became a highly skilled plant propagator and in recent years has been in charge of the extensive experimental greenhouses at the plant industry station, Beltsville, Md.

While associated with the handling of citrus plants introduced from foreign lands and working in the Department of Agriculture's old greenhouses at Washington, D. C., he

Tree Wound Dressing

Arborist Tree Wound Dressing is a scientifically prepared waterproof composition for application to tree cavities, wounds or other exposed wood of trees. It contains no coal tar, carbolineum, creosote, nor any material injurious to the cambium layer or the life of the tree.

Arborist Tree Wound Dressing possesses antiseptic and fungicidal properties, being waterproof, adhesive and elastic, giving a durable tree wound dressing which will not harm the living tissue.

	Per gal.
1 gal. can (6 in case)	$1.00
30 and 50-gal. drums	.75

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TRE-TEX
(TRADE-MARK)
Used successfully at Orchardview since 1942
Keeps rabbits, mice, ground hogs, gophers from gnawing trees.
Repellent for tree borer, scab and winterkill.
Use in spray dust—1 to 10—It sticks.
One pound for 100 to 150 trees. Can be applied in 1 hour.
Prices
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ORCHARDVIEW
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FULLER WHEEL HOE
MULCHES, WEEDS, CULTIVATES
$7.25
Costs less. Weighs less. Lasts longer. Does more work. Best by 40 years' test. Dealer inquiries invited.
Light yet efficient. For close work in rows. Adjusts to operator's height. 6-ft. ash handle; standard 9¾-in. bushed wheel; tool steel blades 6 to 14 ins. wide. Wght., 10 lbs.

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Traffic Manager
319½ Georgia St., Louisiana, Mo.
Loss and damage claims against railroad and express companies collected.
Freight bills audited.
Past due notes and accounts collected.
Well known to the nurserymen of the country.
Reference: Bank of Louisiana.

aided materially in the development of sanitary safeguards in handling plants. Some of these safeguards have been described as comparable to aseptic methods used in surgery. He made trips to China, Japan and the Philippines in connection with studies of citrus fruits and their wild relatives.

Born at London, England, Mr. May attended elementary schools there and schools in the District of Columbia and Virginia after his parents came to America and established their family. Mr. May lives with his wife at Berwyn, Md.

PLANT NOTES.

[Continued from page 28.]

from Portugal to the eastern end of the sea and far into Asia, makes them quite short-season bloomers, while clipping of seed pods before they form seeds will induce a summer-long production and even a final "waving of defiance as you draw on the winter blanket," as one gardener expresses it. The subject is too long to be considered in detail now, especially if the southern European and Asia Minor species were included, but I promise myself the pleasure of doing them justice in a forthcoming issue of the American Nurseryman.

Several campanulas can be depended upon to supply color, a few of them giving us their rewards until autumn. Of the latter, our native C. rotundifolia is one of the best. Here we have a plant of vast possibilities in the hands of a careful breeder. Commencing with any ordinary lot of seeds, one will find a wide variation in the product—variation in color and size of flower, height of plant and season of bloom. The variation in nature is so wide, in fact, that we find one botanist giving specific rank to twenty-seven kinds found in Michigan alone. It is a fertile field for investigation and one that should yield splendid rewards in time. One would not, of course, want to neglect the familiar Carpathian harebell, C. carpatica, which was rather fully covered in this column a year or two ago and need not be described again now.

Although I have little success with the general run of Himalayan plants, most of them succumbing to our cold winters, Geranium wallichianum is quite reliable on partly shaded southern slopes where the snow lies deep. Even if it had to be coddled, it would be worth the effort for its long (late June to frost) display of quite large (two inches across), lilac-colored salvers on prostrate

DIG 2 HOLES A MINUTE

—WITH—

A ROPER

Planting and transplanting time is cut way down when you use a Roper high-speed hole digger. Installed easily by one man in a few minutes. Safe, fast and efficient in all soil types. Adjustable so that holes may be dug straight down even on rolling land. Priced reasonably direct from manufacturer.

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SPECIFICATIONS

Equipped with Jumbo Balloon Tires and Tubes, 12x4 Inches.
Specially Designed Curved Nose.
All-steel Construction, electrically welded.
Weight 56 pounds.
Over-all Length 63 inches.
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Capacity 28-in. Ball weighing 600 pounds.

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THE ANSWER TO EVERY NURSERYMAN'S DREAM!
Once You TRY IT You'll NEVER AGAIN Be Without It

GET THE "FEEL" OF
FAMOUS → VITALOAM
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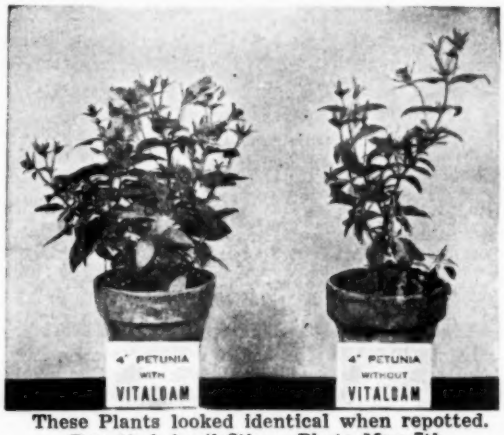
CONSERVE THAT MOISTURE
PROTECT YOUR PLANTINGS
—Sold in 48 States and Canada—

The Sweetheart of the Soil

"It rejuvenates the Earth"



These Plants looked identical when repotted.
Repotted April 8th — Photo May 7th

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Needed by Every Nurseryman, Landscape Gardener and Tree Expert in America. NOT A COMMERCIAL FERTILIZER. Put Right Around The Roots Of Trees And Plants.

REJUVENATE Your SOIL With "VITALOAM"

WARNING—Send in your order NOW to insure delivery.
We will be GREATLY OVERSOLD by Spring.
Use your letterhead and write for Wholesale Prices!

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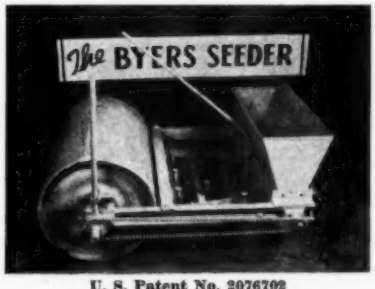
stems. It is easy to grow from seeds, and seeds are often available.

A decade ago Silene schafta would have needed no introduction to American Nurseryman readers, but I suspect that many have come on the scene since the heyday of rock garden popularity who know it only as a name. To all these it may be pointed out that this little catchfly is a sure producer of color from July to frost. Some profess to dislike it on account of its color (deep pink, approaching carmine), but I and, I suspect, a lot of other gardeners are ready to embrace almost anything with joy that can give us color all summer long. It grows six to eight inches high, sending aloft its one and two-flowered stems from a pretty rosette of small lanceolate leaves. It is indestructible in a sunny well drained situation and should be a joy to the busy gardener with little time to fuss with miffs.

A little scabiosa-like plant, known to many as Scabiosa pterocephala, but correctly, according to modern usage, as Pterocephalus parnassi, from the mountains of Greece is, to me, an endearing little plant. The half-hearted praise given it by some writers, as when one called it "a quaint, rather pallid, but engaging little plant," may be partly accountable for its neglect. In any case, I



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It will sow grass seed, commercial fertilizer, limestone, or any granular material that can be broadcast on the surface of the ground and raked in.

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Saves Time, Labor and Twine.
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"GRO-QUICK" ELECTRIC SEED BED HEATER
BOTTOM HEAT CAN'T BE BEAT
For Early Plant Starting
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GET OUR CATALOG AND PRICE SHEET
BROADWAY RUBBER MFG. CO. LOUISVILLE 2, KY.

seldom see it in nurseries or gardens, and that is not as it should be, for the plant offers us a comely gray mat of hairy leaves, above which are displayed numerous, pale lavender pincushions during the summer months. Like most Grecians, it is not happy in our northern winters, though it usually goes through one with plenty of snow. And its hairy mats tell me that it would resent winter damp in heavy soil. It should do well, however, in raised situations in the light soil of which all rock gardens should be made. It laughs at dry weather and is in all respects, except the ones mentioned, a happy little creature. It is easily grown from cuttings in spring.

Several other plants should be named in this connection, but I find that our space is exhausted. Enough has been said, however, to show that the period after June need not be the dreary time rock gardeners ordinarily expect it to be.

NEW PUBLIC RELATIONS DIRECTOR FOR J. & P.

C. H. Perkins, president of Jackson & Perkins Co., Newark, N. Y., has announced the employment of Fred Morley, formerly associate editor of Life magazine in charge of natural history and also associate editor of House and Garden, as the firm's new director of public relations, succeeding the late Betty Stone. Mr. Morley, whose mail address is New Canaan, Conn., will supply information on roses and perennials from the experience and facilities of Jackson & Perkins Co.

CORRECTION.

In the preceding issue was a news item about the unbeaten hockey team sponsored by Bill Salome, who runs the Wichita office of Mount Hope Nurseries. The home office of his firm is at Mount Hope, Kan., and not at Lawrence, Kan., where a firm of the same title has long been operated by A. S. Griesa.

W. F. WELLEMYER has been operating the Wellemeyer Landscape Service, Dayton, O., for the past year.

THE announcement made in the January 1 issue of the American Nurseryman of the holly contest sponsored by Evergreen Nurseries, Germantown, Tenn., failed to mention that the contest was open only to homeowners of Memphis and Shelbyville counties, Tenn., and as a result entries have been sent in from all over the country.

For Healthier Plants, Fuller Foliage, Blooms and Berries

Use **Don't Gamble On The Weather**

ATLAS PORTABLE OVERHEAD IRRIGATION

To insure healthier plants, normal even growth, reaching marketable size earlier, American nurserymen are installing Atlas Portable Overhead Irrigation Systems. Atlas pipe is equipped with the flexible, leakproof, Horseshoe Latch Couplings. Its light weight, quick assembly and easy portability make it ideal, inexpensive and profitable.

Write for literature and prices. Attractive territories open for dealers.

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Illustrated with large-size reproductions of twenty-eight plans and their outstanding features.

Discusses sales building and other buildings on the nursery, circulation on the grounds; gives ideas for display arrangements and merchandising; shows how plans may be adapted to one's own nursery.

Complete series of articles reprinted from the American Nurseryman from June 1, 1946, through October 15, 1946, reviewing outstanding ideas from plans entered in prize competition sponsored by National Landscape Nurserymen's Association.

32 pages and stiff cover, 8½ x 11¼ inches—**$1.00** per copy

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POWER SPRAYERS

If in need, write and explain your requirements and we will make recommendation, send descriptions of what we have to offer and approximate prices.

TUBS for PLANTS and TREES

Prewar quality, sturdily constructed, 3 straps, holes in the bottom, all painted green. Some sizes in stock for prompt shipment. Some being made to our order and will require 20 to 30 days. Like all other items, manufacturing is slow, transportation slow, hence we urge you to anticipate as far [illegible] advance as possible and order your entire requirements. NOW!

	Top	Depth	Weight	Each	Dozen
No. M-403—	8-in.	8-in.	2½ lbs.	$0.95	$10.40
No. M-404—	9-in.	9-in.	2¾ lbs.	1.00	11.15
No. M-405—	10-in.	9-in.	3 lbs.	1.15	12.20
No. M-406—	11-in.	10-in.	4 lbs.	1.30	13.90
No. M-407—	12-in.	11-in.	4½ lbs.	1.50	16.50
No. M-409—	14-in.	13-in.	7 lbs.	2.15	23.50
No. M-411—	16-in.	15-in.	9 lbs.	2.75	28.80

☞ Note, at present we have 8, 9 and 11-inch in stock for immediate shipment. All other sizes expected soon. Will be shipped the same day ours arrive.

BULB PLANTING TOOL— "Hole in One"

The tapered cup removes the soil and makes a perfect planting hole in one operation. A slight twist when pushing the tool into the soil, also when removing it, will leave a clean flat-bottomed hole.

No. L-257—Special ..... Each $0.95
3 for 2.55
Dozen 9.60

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No. G-6100—**HOTBED.** Special, all glass, each $1.50
GREENHOUSE SPECIAL. Each 65c; doz. 6.60
Large figures—Red Hercury—very easy to read.
MAXIMUM-MINIMUM. High and low temperatures.
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COTTON TWINE—White Balls

30 balls to a 5-lb. bag—3 or 4-Ply.
No. M-11—3-Ply. No. M-12—4-Ply.
Per bag $4.95
In stock for immediate shipment.

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With electric motors still scarce, continued delays are inevitable.
AVOID DISAPPOINTMENT——ORDER YOURS NOW!
Will be shipped from our first 1947 allotment.

Universal Type Motor
AC or DC—110 Volts

Can also be used for trimming grass, cutting weeds, etc.
Complete with 6-ft. electric cord and plug.
No. T-248, Each $34.50
No. T-300, 125-ft. Extension Cord 12.95
Rubber covered, heavy duty cord.)

"IRON HORSE" Galvanized VASES

Outstanding in quality. Recognized for years as the most durable, yet prices are very reasonable.

Number	Top	Depth	Each	Dozen
G-58	5½ ins.	6 ins.	$0.60	$ 6.90
G-253	4¾ ins.	10 ins.	.75	8.30
*G-254	5½ ins.	11 ins.	.95	10.35
G-256	6½ ins.	13½ ins.	1.00	10.95
G-258	6½ ins.	17 ins.	1.10	12.40
*G- 65	7½ ins.	8 ins.	.85	9.65
*G- 67	9 ins.	11½ ins.	1.15	13.45
G-68B	9 ins.	15½ ins.	1.35	15.70
*G- 69	9 ins.	18 ins.	1.40	16.40
*G- 70	9 ins.	23½ ins.	1.75	19.95

☞ Numbers marked * are in stock for immediate shipment. Others expected soon.

LONG ISLAND SESSION.

The Long Island Nurserymen's Association held the first in a series of round-table discussions in the new year when members met for luncheon January 3 at Leo Gerard's restaurant, at Huntington Station, N. Y.

WEST PENNSYLVANIA HEADS.

At the December meeting of the board of directors of the Western Pennsylvania Nurserymen's Association, the following were elected officers for the coming year: President, John M. Eisler, Butler; vice-president, Frank Brushmiller, Ingram; secretary, Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh, and treasurer, Charles S. Zimmerman, I. W. Scott Co., Pittsburgh.

The board of directors appointed committees for 1947 and discussed ways and means of serving the members. The spring meeting was scheduled for 3 p. m., March 4, at the Webster Hall hotel, Pittsburgh.

HAMMOND BRANDT, Brandt Nurseries, Upper Falls, Md., is one of the charter members of a Rotary Club recently organized at Kingsville.

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Use this *Safe, Odorless, Non-Poisonous Spreader* in place of fish oil soaps and summer oils.

FOR BETTER CONTROL OF

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And Most Sucking Insects on Evergreens and Ornamentals

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UNUSUAL SHRUBS FOR NORTHERN CALIFORNIA.

[Continued from page 8.]

fruit, all at the same time. The foliage is a dark, glossy green. The flowers in bud are a definite pink, in contast to the light shell-pink to almost white of those in full bloom. The immature fruit is a dark green, about the size of a pea, turning to a deep orange in color and a size above the average commercially grown fruit when fully matured. It is not only decorative, but also edible, especially in a luscious lemon pie.

The Meyer lemons have flowered in gardens for more than seven months of the year and may be grown anywhere in California, from north to south, coast to valleys, doing well in every place. They will not freeze even in the most severe California frost, require no pruning except for shaping and like well drained, slightly acidic soil. At times a yellow-mottled leaf condition appears on the plant, and this is due to one of three conditions: Lack of acidity in soil, adverse temperature conditions or too much water. Good ant control should be practiced to curtail aphis and scale insects. All in all, the Meyer lemon is the ideal citrus fruit plant for the home garden, as it can be used as a single plant, as a hedge, as an excellent tub specimen for the patio or as an accent in the garden.

Brunfelsia Calycina Floribunda.

Brunfelsia calycina floribunda, known to the layman as yesterday, today and tomorrow because yesterday's flowers are different today and tomorrow's will again be of a changed color, is named after Otto Brunfels, physician and botanist of the early sixteenth century. Botanically it belongs to the solanaceae (potato) family and is a native of South America, especially Brazil. There are more than twenty species. It is of medium size, reaching a height of six feet, with a compact growing habit. The foliage is a rich, dark green, and its fragrant flowers, blooming in the spring and summer, are at first a lovely violet shade, gradually fading into lavender and then white. It should be planted in full sun, in a neutral or slightly acid soil with plenty of moisture and good drainage. Although it is a tropical plant, it is considered hardy in the bay area, for it will tolerate down to 20 degrees in temperature. Propagation is by cuttings from the new growth in the spring or from pieces of ripe wood in the autumn. These are placed in sand, kept close and

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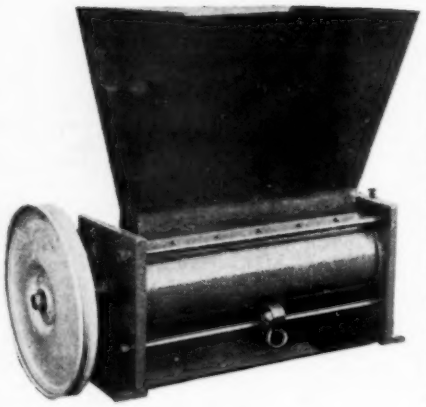

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shaded until rooted. The plant is of easy culture when its simple requirements are understood and subsequently followed.

Correa Harrisi.

Correa harrisi, commonly known as the Australian fuchsia, is a member of the rutaceae family and a native of the barren sandy plains of Australia. Correa was identified by a Portuguese botanist, Jose Francesco Correa de Serra, who lived from 1750 to 1823. It was introduced on the coast in 1943 by W. B. Clarke & Co., San Jose, Cal., and we quote their catalog, "The Garden Aristocrat":

"Our being able to offer this beautiful plant is a sort of triumph of persistence. We had learned of the great esteem in which it was held in England, but were also told by those who had tried that all importations had promptly died. We then imported it for four consecutive years. As with our predecessors, every one died. Finally, instead of trying to save the plants, we took cuttings as soon as they arrived and succeeded in rooting seven. Our entire stock has been built up from these."

The tubular flowers are an inch or more in length and larger than Correa pulchella. The plants bloom profusively, even the small ones, from December to April; the flowers are a bright shade of orange to scarlet. The shrub grows to about two feet in height, is seldom troubled with insects or diseases and is not particular as to type of soil. It will grow in full or partial shade and will stand down to 22 degrees in temperature. The shrub is ideal in a rock bank where a little height is desired or for close-up beauty in a filler spot.

Leptospermum Scoparium Florepleno.

The dwarf, rose-flowered tea tree is a member of the myrtaceae family, of which there are about twenty-five species, mostly natives of Australia, but a few are from New Zealand and the Malay archipelago. Leptospermum (Greek for slender seed) scoparium florepleno is far superior to its better known relative, Leptospermum laevigatum. This upright, roundish shrub grows about three to five feet in height, requires no shearing, because of its compact growth, and has fine, soft foliage which remains the same for the entire year. It literally covers itself with small, pink, double flowers like the Cecile Brunner roses during the months of March and April and then continues blooming occasionally for many months. Cut sprays from the plant are beautiful for indoor floral

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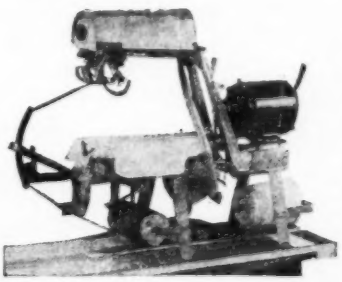

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arrangements. It grows in many kinds of soils, preferring a reasonably dry soil and seeming to require nothing but the ordinary care given to gardens. It has shown itself hardy at 15 degrees temperature, although the absolute minimum has not been ascertained.

Cuttings taken from well ripened wood in the fall or from the young growth in summer root freely under the same treatment as given erica. For a potting soil use two parts leaf mold and one part sand. The plants make a straggling growth unless trimmed into shape.

OKLAHOMA PROGRAM.

[Concluded from page 37.]

given by Mr. Weeks, and C. E. Garee will outline the classroom and laboratory training offered at Central high school, Oklahoma City.

Leo Conard, secretary of the Oklahoma association, will discuss the 1947 outlook for the nursery business, and James Parker will give a practical demonstration of the propagation and grafting of apple trees.

At the January 17 session, Thomas Milstead will consider the types of homes being built versus the landscape material which is available, and a talk will be given on the prospects for future home building. D. W. Hogan, Sr., president of the City National Bank & Trust Co., Oklahoma City, will discuss the economic outlook for the coming years.

That afternoon, Dr. Michel Afanasiev, associate horticulturist at Oklahoma Agricultural and Mechanical College, Stillwater, will discuss new methods of propagation.

WEST VIRGINIA PROGRAM.

Plans for the program of the winter meeting of the West Virginia Nurserymen's Association, February 7 at the Ruffner hotel, Charleston, have been made flexible enough so that they may be adjusted to the members' desires. The morning program will include talks by Joseph Annon on "Boosting Sales"; T. D. Gray, of the department of rural organization of the University of West Virginia, Morgantown, on "Landscaping Problems," and C. R. Willey, assistant state entomologist, on "Pests in Nurseries."

Those who wish will visit the nurseries of Conner & Amos, Charleston. John Amos, of that firm, will be in charge of a discussion of "Prospects for Business," considering the outlook for the next three years and the next ten years separately. "Modern Roses," a color and sound film provided by Jackson & Perkins Co., Newark, N. Y., will be shown, and other films and slides will be available.

Under a reciprocal agreement made by Norman Cole, president of the West Virginia Nurserymen's Association, and Bert Shoosmith, president of the Virginia Nurserymen's Association, each association will send the same number of delegates to the other's midwinter meeting. The Virginia meeting, featuring an exhibit of firms offering goods and services to nurserymen, is to be held January 29 and 30 at the John Marshall hotel, Richmond.

MIDWEST TREE CONFERENCE.

When the second Midwestern Shade Tree Conference convenes at the Stevens hotel, Chicago, Ill., February 14 and 15, members and their guests will have an opportunity to ask questions of each speaker and present their problems at the plant clinic to be conducted at the final session by Dr. L. C. Chadwick, of the department of horticulture at Ohio State University, as the final feature.

The address of welcome Friday morning will be given by Charles G. Sauers, general superintendent of the Cook county, Illinois, forest preserve district. Dr. Chadwick's address on "Tree Selection" and a sound film on pest control, presented by Edward Huckstep, field manager of the insecticide department of the General Chemical Co., Chicago, will be featured at the opening session.

In the afternoon Edward H. Scanlon, city forester of Cleveland, O., and editor of Trees magazine, will discuss "The Renaissance of Street Tree Planting in Present-day Cities." H. F. Siefert, horticulture inspection supervisor of the Illinois department

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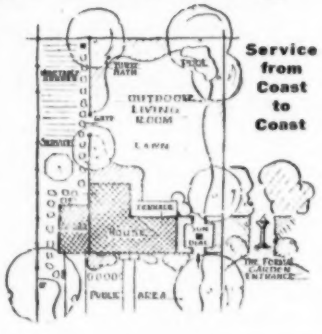

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No. M-310	1¾ x 1¾ x 2½	12 lbs.	$3.35
No. M-320	2 x 2 x 2½	15 lbs.	3.60
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of agriculture, will talk on "The Function and Duties of a State Plant Quarantine Board." Methods of making the public more shade tree conscious will be discussed by Karl Dressel, of the department of forestry at Michigan State College, East Lansing.

Following the evening banquet, at which Paul E. Tilford, Wooster, O., executive secretary of the National Arborist's Association, will be toastmaster, responses are to be made by Dr. Curtis J. May, vice-president of the National Shade Tree Conference, and C. L. Wachtel, president of the midwestern chapter of the national conference.

Mr. Wachtel will be chairman of the business meeting to be held Saturday morning, following which Dr. May, who is principal pathologist with the United States Department of Agriculture, Washington, D. C., will discuss "Epidemic Shade Tree Diseases." Paul Tilford will give an address, "Shade Trees—Their Cash Value."

Saturday afternoon "Public Education in Arboriculture" will be discussed by Frank Pipal, city forester of Omaha, Neb. Dr. L. R. Tehon, acting chief of the Illinois State Natural History Survey, will discuss the relationship between the survey and the arborists. "Arboriculture and

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and the Landscape Architect" will be the subject of a speaker yet to be announced.

CONNECTICUT ARBORISTS TO MEET AT BRIDGEPORT.

When the Connecticut Tree Protective Association meets January 29 at the Stratfield hotel, Bridgeport, Conn., the twenty-fifth anniversary of the founding of the association will be observed. It was established in 1922 by a group of tree workers who wished to carry on throughout the year the work of the institutes sponsored by the state tree protection examining board. As stated in the constitution, the purpose of the group is to promote the protection and care of shade, fruit and forest trees in Connecticut by encouraging the practice of efficient methods by tree workers, by securing necessary state legislation and adequate appropriations from municipalities and by making possible closer cooperation among all parties interested in the protection of trees.

The membership is composed of active members, those who are representatives of commercial enterprises engaged in landscape forestry, tree surgery, arboriculture, landscape gardening and allied occupations, and associate members, those who are engaged in noncommercial research or educational shade tree and landscape activities and all others who are interested in the protection of shade trees.

Current officers are: President, Edward A. Connell, Stamford; vice-president, Joseph M. Fennell, Bridgeport; secretary, William Luckner, Stepney, and treasurer, Frederik S. Eaton, Northford. Members of the executive committee, in addition to the officers, are Philip Hansling, Hartford; Oscar Warner, Waterbury; Albert Meserve, Danbury, and Ray Landis, Old Greenwich. The first issue of a bulletin, News and Views for the Connecticut Arborist, edited by Albert E. Dimond, of the Connecticut agricultural experiment station, New Haven, was sent to members last November.

MORE than $2,000 has been raised for the insect, pest and disease fund of the Oregon Association of Nurserymen, according to Samuel J. Rich, Rich & Sons Nursery, Hillsboro, Ore. This is half the goal set for the fund, which is to be turned over to the Oregon agricultural experiment station at Corvallis for the benefit of every nurseryman, florist and bulb grower in the state.

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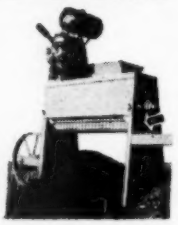
COMPOST



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